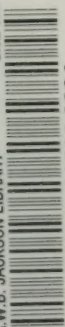


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College Entrance Examination Board

POST OFFICE SUB-STATION 84, NEW YORK, N. Y.

# NINTH ANNUAL REPORT

OF THE

## SECRETARY

### 1909

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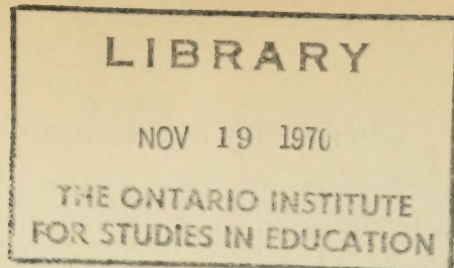
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## COLLEGE ENTRANCE EXAMINATION BOARD

### NINTH ANNUAL REPORT OF THE SECRETARY

#### THE EXAMINATIONS OF 1909

##### Organization

At the ninth annual meeting of the College Entrance Examination Board, held at Columbia University, New York, November 7, 1908, the following officers were elected: President Butler of Columbia University, chairman; Dean Hurlbut of Harvard University, vice-chairman; Professor Fiske, Columbia University, secretary and treasurer. President Woolley of Mount Holyoke College, Dean Ferry of Williams College, and Mr. Wilson Farrand of the Newark Academy, were elected to serve with the chairman and vice-chairman as members of the executive committee.

At the same meeting the following standing committees were appointed:

COMMITTEE OF REVIEW: Dean Hurlbut, Harvard University (chairman); President Taylor, Vassar College; Dean Crane, Cornell University; Dean Ferry, Williams College; Mr. Farrand, Newark Academy; Mr. Gallagher, Thayer Academy; Mr. Harris, Central High School of Cleveland.

COMMITTEE ON TIME-SCHEDULE: President Thomas, Bryn Mawr College (chairman); Dean Emerson, Dartmouth College; Acting Dean Brewster, Barnard College; Mr. Denbigh, Morris High School of New York; Mr. Black, Roxbury Latin School of Boston.

During the course of the year, Yale University was admitted to membership, and Barnard College and the University of Rochester withdrew. The membership of the board at present consists of twenty-seven colleges and universities, and eight representatives of the secondary schools. The admission of Yale University brings the number of New England colleges up to ten. In accordance with the constitution of the board,

the New England Association of Colleges and Preparatory Schools is entitled to appoint three secondary-school representatives on the board. Up to the present time the association has appointed only two such representatives.

The Carnegie Foundation during the year just past has participated in the deliberations of the College Entrance Examination Board, its representative on the board being President Pritchett.

In addition to the publications mentioned in previous reports of the secretary, the following have been issued to date:

**EIGHTH ANNUAL REPORT OF THE SECRETARY . . . SEPTEMBER 1, 1908**

This report, prepared by Acting Secretary Professor N. G. McCrea, gives an account of the operations of the Board during the eighth year of its existence and is accompanied by statistical tables showing in detail the more important results of the examinations.

**DOCUMENT No. 39 . . . . . OCTOBER 31, 1908**

List of examiners for 1909.

**DOCUMENT No. 40 . . . . . JANUARY 1, 1909**

This document contains the constitution of the Board, the list of subjects in which examinations were offered in 1909, and detailed definitions of the requirements in each subject, including lists of experiments in the natural sciences. A copy of this document will be sent to any address upon receipt of ten cents in postage stamps.

**DOCUMENT No. 41 . . . . . APRIL 15, 1909**

List of places at which arrangements were made for holding examinations during the week, June 14-19, 1909.

**DOCUMENT No. 42 . . . . . AUGUST 15, 1909**

List of examiners for 1910.

**EXAMINATION QUESTIONS OF 1909 . . . . . AUGUST 31, 1909**

This volume, published for the Board by Ginn & Company, may be obtained thru any bookseller for sixty cents a copy. If it is ordered from Ginn & Company direct, the mailing price is seventy cents. It contains all the examination questions of 1909, together with the names of the examiners who prepared the question papers in each subject and the readers who rated the answer books in each subject. It includes also the time schedule of the examinations of 1909 and a brief account of the plan of organization and aims of the Board.

**DOCUMENT No. 43 . . . . . AUGUST 31, 1909**

Circular of general information, containing list of subjects in which



examinations are at present held, time schedule of the examinations to be held June 20-25, 1910, instructions to candidates and their teachers, and rules governing the conduct of the examinations.

**Value of Requirements in Units**

The Committee of Review presented a report at the meeting held in April, 1908, recommending that the College Entrance Examination Board indorse the scale of values of college entrance requirements adopted by the Carnegie Foundation, and that in the future publications of the Board these values be attached to the definitions of requirements. This scale of values is calculated on the basis of each unit representing one year's work in a secondary school, with four or five periods a week, and is as follows:

English a	2 units	German a	2 units
b	1 unit	b	1 unit
History a, b, c, and d, each	1 "	c	1 "
Latin a i and ii	1 "	Spanish	2 units
b	1 "	Algebra a i	1 unit
c	1 "	a ii	$\frac{1}{2}$ "
d	1 "	b	$\frac{1}{2}$ "
e	$\frac{1}{2}$ "	Plane Geometry	1 "
be	1 "	Solid Geometry	$\frac{1}{2}$ "
g	$\frac{1}{2}$ "	Trigonometry	$\frac{1}{2}$ "
l	$\frac{1}{2}$ "	Plane Trigonometry	$\frac{1}{2}$ "
dq	1 "	Physics	1 "
Greek a i and ii	1 "	Chemistry	1 "
b	1 "	Botany	1 "
c	1 "	Geography	1 "
ch	1 "	Zoölogy	1 "
French a	2 units	Drawing	1 "
b	1 unit	Musical Appreciation	1 "
c	1 "	Harmony	1 "
		Counterpoint	1 "

At the meeting held April 17, 1909, the recommendation of the Committee of Review was adopted, and the Board formally indorsed this scale of values. During the past few years a number of colleges have established individual scales of their own, and these differ so widely that in many cases it is extremely difficult to compare one with another. It is hoped that thru the coöperation of the Carnegie Foundation and the College Entrance Examination Board the scale of values here

given may be regarded as authoritative, and that it may find general acceptance.

**Requirement in Physics** At the meeting of the Board held in May, 1907, it was resolved that a commission be established to consider the revision of the definition of the requirement in physics. The Committee of Review undertook to organize such a commission. The commission, when appointed, consisted of the following delegates:

Five delegates appointed by the College Entrance Examination Board:

Professor Wallace C. Sabine, Dean of the Graduate School of Applied Science of Harvard University.

Professor Henry S. Carhart, University of Michigan.

Professor Alfred D. Cole, Ohio State University.

Professor Arthur W. Goodspeed, University of Pennsylvania.

Frank Rollins, Ph.D., Assistant Commissioner of Education for the State of New York.

Two delegates appointed by the New England Association of Colleges and Preparatory Schools:

President Flavel S. Luther, Trinity College.

John W. Hutchins, A.M., Principal of Malden High School.

Two delegates appointed by the Association of Colleges and Preparatory Schools of the Middle States and Maryland:

Professor Arthur W. Goodspeed, University of Pennsylvania.

Frank Rollins, Ph.D., Assistant Commissioner of Education for the State of New York.

Two delegates appointed by the North Central Association of Colleges and Secondary-Schools:

Professor C. R. Mann, University of Chicago.

Professor H. L. Terry, Inspector of High Schools, Wisconsin.

One delegate appointed by the Association of Colleges and Preparatory Schools of the Southern States:

Professor C. A. Perkins, University of Tennessee.

At the meeting of the Board held in November, 1908, the Committee of Review reported that it had received majority and minority reports from the commission named above, but that it was not yet able to recommend a revised statement of the requirement in physics. With the approval of the commission, the Committee of Review subsequently appointed a com-



mittee of secondary-school teachers, to whom were referred the majority and minority reports of the commission, and asked the committee to give these reports a full and careful consideration. The membership of this committee was as follows:

N. Henry Black, Roxbury Latin School (Chairman);  
W. M. Butler, Yeatman High School of St. Louis (Secretary);  
Winthrop E. Fiske, Phillips Exeter Academy;  
Daniel E. Owen, William Penn Charter School;  
Willis E. Tower, Englewood High School of Chicago;  
Frank B. Spaulding, Boys' High School of Brooklyn.

This committee at the meeting of the College Entrance Examination Board held in April, 1909, submitted with its unanimous approval a revised definition of the requirement in physics. The definition, which was adopted by the Board to take effect at the examinations to be held in 1910, is as follows:

## PHYSICS

Counting one unit

### GENERAL STATEMENT

1. The Unit in Physics consists of at least 120 hours of 60 minutes each. Time spent in the laboratory shall be counted at one-half its face value.

2. The Course of Instruction in Physics should include:

- (a) The study of one standard textbook, for the purpose of obtaining a connected and comprehensive view of the subject. The student should be given opportunity and encouragement to consult other scientific literature.
- (b) Instruction by lecture table demonstrations to be used mainly for illustration of the facts and phenomena of physics in their qualitative aspects and in their practical applications.
- (c) Individual laboratory work consisting of experiments requiring at least the time of 30 double periods. The experiments performed by each student should number at least 30. Those named in the appended list

are suggested as suitable. The work should be so distributed as to give a wide range of observation and practise.

The aim of laboratory work should be to supplement the pupil's fund of concrete knowledge and to cultivate his power of accurate observation and clearness of thought and expression. The exercises should be chosen with a view to furnishing forceful illustrations of fundamental principles and their practical applications. They should be such as yield results capable of ready interpretation, obviously in conformity with theory, and free from the disguise of unintelligible units.

Slovenly work should not be tolerated, but the effort for precision should not lead to the use of apparatus or processes so complicated as to obscure the principle involved.

3. Thruout the whole course special attention should be paid to the common illustrations of physical laws and to their industrial applications.

4. In the solution of numerical problems, the student should be encouraged to make use of the simple principles of algebra and geometry to reduce the difficulties of solution. Unnecessary mathematical difficulties should be avoided and care should be exercised to prevent the student's losing sight of the concrete facts in the manipulation of symbols.

### SYLLABUS

The following is a list of topics which are deemed fundamental and which should therefore be included in every well planned course of elementary physics. Only a few of the most important applications of these topics have been mentioned; teachers should add liberally to them. It is expected that the teacher will arrange these topics in such order as to suit his individual needs.

#### I INTRODUCTION

##### A. Metric System.

Linear measure, units—meter, centimeter, millimeter.



Square measure—square centimeter.

Cubic measure—cubic centimeter, liter.

Mass—kilogram, gram.

B. Volume, weight, density.

C. States of matter : solids, liquids, gases.

## II MECHANICS

### *Fluids*

A. Pascal's Law of Fluid Pressure. The hydraulic press.

B. Pressure due to gravity.

Pressure varying with depth and density of the liquid.

Total pressure on the bottom of a vessel.

C. Principle of Archimedes.

D. Specific gravity of solids and liquids.

E. Gases—relation between pressure and volume.

F. Atmosphere pressure, buoyancy, the barometer, pumps for liquids and gases.

### *Solids*

A. Principle of moments.

Parallelogram of forces (Resolution of forces, rectangular only).

B. Newton's Laws of Motion.

Force, momentum, velocity, acceleration.

Uniformly accelerated motion, when initial or final velocity is zero.

Falling bodies.

C. Mechanical work.

Energy—potential and kinetic.

Conservation of energy.

D. Machines: Principle of work applied to machines, mechanical advantage, friction, efficiency. (Use terms, effort and resistance.)

Lever, wheel and axle, pulleys, inclined plane.

E. Uniform circular motion; centrifugal and centripetal forces qualitatively illustrated.

F. Law of universal gravitation.

Relation of weight to mass.

Center of gravity.

Stability.

### III HEAT

- A. Heat—a form of energy.  
Temperature, Centigrade and Fahrenheit scales.
- B. Conduction, convection, and radiation.
- C. Expansion of solids, coefficient of linear expansion.  
Expansion of liquids, anomalous expansion of water.  
Expansion of gases, Law of Charles, absolute zero.
- D. Change of state.  
Fusion, the melting point.  
Vaporization, boiling, evaporation.
- E. Measurement of heat, latent and specific heat.
- F. Mechanical equivalent of heat.

### IV SOUND

- A. Nature and origin of sound.
- B. Pitch, loudness, quality.
- C. Velocity.
- D. Reflection of sound, echoes.
- E. Resonance.

### V LIGHT

- A. Definitions:  
Light, luminous bodies, illuminated bodies, transparent, translucent, and opaque bodies.
- B. Rectilinear propagation of light in a homogeneous medium, shadows, pinhole camera.
- C. Photometry.  
Intensity of light (source) and intensity of illumination distinguished.  
Law of inverse squares.
- D. Reflection.  
Law of reflection. Regular and diffused reflection.  
Plane and spherical mirrors, position and character of images.



E. Refraction.

Laws of refraction (qualitative).

Refraction by plates, prisms, and lenses.

Lenses: Converging and diverging, conjugate foci, principal focus, principal axis.

Position and character of real and virtual images formed by converging lenses.

Dispersion, color and the spectrum.

Applications: The camera, the human eye, the compound microscope, the telescope.

VI MAGNETISM

A. Magnets, permanent and temporary.

B. Polarity, magnetic attraction and repulsion.

C. Magnetic induction, magnetic field and lines of force, permeability.

D. The earth as a magnet, compass, declination, dip.

VII STATIC ELECTRICITY

A. Electrification by friction; two kinds.

B. Electrical attraction and repulsion; electroscopes.

C. Conductors and insulators; electrification by induction.

D. Condensers.

VIII CURRENT ELECTRICITY

A. Simple voltaic cell.

Electro-chemical action.

Local action and polarization; prevention of polarization.

B. Types of cells (Daniel, Leclanché).

C. Electrolysis.

The ampere.

Electrolysis of water, electro-deposition of metals.

Storage cell.

D. Electro-magnetism.

Magnetic field around a current.

Relation between direction of current and lines of magnetic force.

- Electro-magnets, ampere turns (qualitative).
- The electric bell and the telegraph.
- E. Resistance.
  - The ohm.
  - Ohm's Law.
  - The volt.
  - Power :—the watt and watt hour.
- F. Heating effects.
  - Fuse wire and electric heater.
  - Arc and incandescent lamps.
- G. Measuring instruments: galvanometer, ammeter, voltmeter, resistance box.
- H. Series and parallel connection of cells, lamps, etc.
- I. Fall of potential in a circuit.
- J. Electro-magnetic induction.
  - Direction and magnitude of the induced electromotive force.
  - Simple two-pole dynamo and motor.
  - Simple alternating and direct current generator.
  - Transformer, induction coil, telephone.

#### LIST OF EXPERIMENTS

##### MECHANICS

1. Weight of unit volume of a substance, prism or cylinder.
2. Principle of Archimedes.
3. Specific gravity of a solid body that will sink in water.
4. Specific gravity of a liquid, two methods (bottle and displacement methods);
- or,
5. Specific gravity of a liquid by balancing columns.
6. Boyle's Law.
7. Density of air.
8. Hooke's Law.
9. Strength of material.
10. The straight lever, principle of moments.
11. Center of gravity and weight of a lever.
12. Parallelogram of forces.
13. Four forces at right angles in one plane.



14. Coefficient of friction between solid bodies—on a level and by sliding on an incline.
15. Efficiency test of some elementary machine, either pulley, inclined plane, or wheel and axle.
16. Laws of the pendulum.
17. Laws of accelerated motion.

### HEAT

18. The mercury thermometer: relation between pressure of steam and its temperature.
19. Linear expansion of a solid.
20. Increase of pressure of a gas heated at constant volume; or,
21. Increase of volume of a gas heated at constant pressure.
22. Heat of fusion of ice.
23. Cooling curve thru change of state (during solidification).
24. Heat of vaporization of water.
25. Determination of the dew point.
26. Specific heat of a solid.

### SOUND

27. Velocity of sound.
28. Wave length of sound.
29. Number of vibrations of a tuning fork.

### LIGHT

30. Use of photometer.
31. Images in a plane mirror.
32. Images formed by a convex mirror.
33. Images formed by a concave mirror.
34. Index of refraction of glass; or,
35. Index of refraction of water.
36. Focal length and conjugate foci of a converging lens.
37. Shape and size of a real image formed by a lens.
38. Magnifying power of a lens.
39. Construction of model of telescope or compound microscope.

**MAGNETISM AND ELECTRICITY**

40. Study of magnetic field.
41. Magnetic induction.
42. Study of a single fluid voltaic cell.
43. Study of a two fluid voltaic cell.
44. Magnetic effect on an electric current.
45. Electrolysis.
46. Laws of electrical resistance of wires: various lengths, cross-section, and in parallel.
47. Resistance measured by volt-ammeter method.
48. Resistance measured by Wheatstone's bridge.
49. Battery resistance—combination of cells.
50. Study of induced currents.
51. Power or efficiency test of a small electric motor.

**CERTIFICATE REQUIRED**

In lieu of the presentation of the laboratory notebook, at the time of the examination the candidate must present a certificate in the following form:

**TEACHER'S CERTIFICATE**

.....School.  
.....19.....

I certify that.....has personally performed and properly recorded in a suitable notebook..... experiments in the physical laboratory of the.....School, during the year.....

The entire course has occupied time equal to.....hours of 60 minutes each, of which.....hours have been given to the laboratory work and.....hours to lecture and recitation work.

Signed.....  
Teacher of Physics.

The teacher may here enter the final grade of.....per cent.

**Requirement in  
English**

At its meeting in April, 1909, the Board adopted as its definition of the requirement in English for the years 1913, 1914, and 1915, the requirement proposed by the National Conference on Uniform Entrance Requirements in English. It was reported that the National Conference on Uniform Entrance Requirements



in English had effected a permanent organization. The Board voted to accept membership in the Conference.

At the same meeting the Board appointed two delegates to attend a proposed conference between representatives of Harvard, Yale, Princeton, and the College Entrance Examination Board, for the purpose of considering how greater uniformity could be secured between the several examinations based upon the requirement of the National Conference on Uniform Entrance Requirements in English.

**Requirement in  
Mathematics**

In April, 1909, the Committee of Review reported that it had appointed a sub-committee to consider what action might be desirable in order to secure reports upon the following questions:

1. Whether the Board should adopt a syllabus for use in preparing candidates to meet the requirements in geometry.
2. Whether it would be desirable to alter the requirements in algebra so as to shorten or lengthen the amount of time required to prepare candidates to meet these requirements.

**Requirement in  
Latin**

At the same meeting of the Board the Committee of Review reported that it proposed to send to the Committee of the American Philological Society engaged in considering the definition of admission requirements in Latin, a communication expressing the Board's great interest in the work of the committee of the Philological Association and its sense of the desirability of uniform entrance requirements and a reduction in the number of separate examinations.

**Award of Com-  
petitive Sc olar-  
ships**

The Frank Thomson Scholarships of the Pennsylvania Railroad Company were this year awarded to Wallace Brockman Porter of the Rayen School, Youngstown, Ohio, and Benjamin M. Snyder of the Starkey Seminary, Lakemont, N. Y. The Memphis Intercollegiate Scholarship was won by Miss Corinne Johnson Gladding of St. Mary's School, Memphis. The scholarship of the Vassar Alumnae Association of Chicago and the West was

won by Miss Anne Elizabeth Peterson of Kemper Hall, Kenosha, Wis. The Pulitzer Competitive Scholarships were, as usual, awarded to boys in the public high schools of New York City. The list of successful candidates was headed by Siegfried Hartig of the Morris High School with an average of 90.9 per cent.

#### Other Examinations

The following statement shows the number of candidates examined by Yale, Harvard, Princeton, Massachusetts Institute of Technology, Bryn Mawr, Stevens Institute of Technology, and the University of Pennsylvania. The figures given do not include candidates for admission to these institutions who were examined by the Board alone. The number of such candidates examined by the Board will be found in Table VII.

Yale University .....	1547
Harvard University .....	1476
Princeton University .....	920
Massachusetts Institute of Technology .....	641
Bryn Mawr College .....	328
Stevens Institute of Technology .....	299
University of Pennsylvania .....	115
College Entrance Examination Board .....	3466

#### Examiners

A full list of the examiners for 1909 includes forty-five names. It is as follows:

#### BOTANY

- William Francis Ganong.....Professor of Botany, Smith College  
University of New Brunswick, A.B., 1884, and A.M., 1886; Harvard University, A.B., 1887; University of Munich, Ph.D., 1894
- Willard Winfield Rowlee.....Professor of Botany, Cornell University  
Cornell University, B.L., 1888, and D.S., 1893
- Louis Murlach, Head of Department of Biology, Central High School,  
Detroit, Mich.  
University of Michigan, Ph.B., 1887, and B.S., 1890; University of Leipzig, Ph.D., 1894

#### CHEMISTRY

- Alexander Smith.....Professor of Chemistry, University of Chicago  
University of Edinburgh, B.S., 1886; University of Munich, Ph.D., 1889
- James Flack Norris.....Professor of Chemistry, Simmons College  
The Johns Hopkins University, A.B., 1892, and Ph.D., 1895

Wilhelm Segerblom, Instructor in Chemistry, Phillips Exeter Academy,  
Exeter, N. H.  
Harvard University, A.B., 1897

### DRAWING

Ralph Edward Mayer, Adjunct Professor of Mechanical Drawing, Columbia University  
Columbia University, C.E., 1879

Charles Laban Adams, Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology

Arthur H. Flint, Teacher of Drawing, Commercial High School, Brooklyn, N. Y.

### ENGLISH

George Rice Carpenter, Professor of Rhetoric and English Composition, Columbia University

Harvard University, A.B., 1886; University of the South, D.C.L., 1907

Laura Johnson Wylie.....Professor of English, Vassar College  
Vassar College, A.B., 1877; Yale University, Ph.D., 1894

Daniel Ozro Smith Lowell, Master in the Roxbury Latin School, Boston, Mass.

Bowdoin College, A.B., 1874, A.M., 1877, and M.D., 1877

### FRENCH

Charles Hall Grandgent, Professor of Romance Languages, Harvard University

Harvard University, A.B., 1883

Frederick Morris Warren, Street Professor of Modern Languages, Yale University

Amherst College, A.B., 1880; The Johns Hopkins University, Ph.D., 1887;  
Amherst College, L.H.D., 1901

Louis Alexandre Roux, Master in French and Latin, Newark Academy, Newark, N. J.

Brown University, A.B., 1894

### GEOGRAPHY

Albert Perry Brigham, Professor of Geology and Natural History, Colgate University

Colgate University, A.B., 1879, and A.M., 1882; Harvard University, A.M., 1892

Ralph Stockman Tarr, Professor of Physical Geography, Cornell University

Harvard University, B.S., 1891

Charles Henry Leete, Principal of The Sachs School for Girls, New York, N. Y.

Yale University, A.B., 1879; University of Leipzig, A.M. and Ph.D., 1890

### GERMAN

Frank Vogel, Professor of Modern Languages, Massachusetts Institute of Technology

Harvard University, A.B., 1887, and A.M., 1892



Max Friedrich Blau, Assistant Professor of German, Princeton University  
University of Leipzig, A.M. and Ph.D., 1888

Josiah M. Kagan....Master in the Roxbury High School, Boston, Mass.  
Harvard University, A.B., 1894

### GREEK

Edward Henry Spieker, Associate Professor of Greek and Latin, The  
Johns Hopkins University

The Johns Hopkins University, A.B., 1879, and Ph.D., 1882

George Prentiss Bristol.....Professor of Greek, Cornell University  
Hamilton College, A.B., 1876, and A.M., 1883

Ernest Riess, Teacher of Latin and Greek, Boys' High School, Brooklyn,  
N. Y.

University of Bonn, A.M. and Ph.D., 1890

### HISTORY

William MacDonald.....Professor of History, Brown University  
Harvard University, A.B., 1892; Union University, Ph.D., 1895; University of  
New Brunswick, LL.D., 1900

Marshall Stewart Brown, Professor of History and Political Science,  
New York University

Brown University, Ph.B., 1892, and A.M., 1893

James Sullivan.....Principal of Boys' High School, Brooklyn, N.Y.  
Harvard University, A.B., 1894, A.M., 1895, and Ph.D., 1898

### LATIN

Gonzalez Lodge, Professor of Latin and Greek, Teachers College, Colum-  
bia University

The Johns Hopkins University, Ph.D., 1886; Franklin and Marshall College,  
LL.D., 1900

Duane Reed Stuart.....Professor of Classics, Princeton University  
University of Michigan, A.B., 1896, and Ph.D., 1901

John Tetlow.....Headmaster of the Girls' Latin School, Boston, Mass.  
Brown University, A.B., 1864, A.M., 1879, and Sc.D., 1893

### MATHEMATICS

Robert Woodworth Prentiss, Professor of Mathematics and Astronomy,  
Rutgers College

Rutgers College, B.Sc., 1878, and M.Sc., 1881

Charles Leonard Bouton, Assistant Professor of Mathematics, Harvard  
University

Washington University, M.S., 1891; Harvard University, A.M., 1896; Univer-  
sity of Leipzig, Ph.D., 1898

John Halliday Denbigh, Principal of Morris High School, New York,  
N. Y.

Oxford University, B.A., 1891, and M.A., 1895

### MUSIC

Leonard Beecher McWhood, Adjunct Professor of Music, Columbia  
University

Columbia University, A.B., 1893

Leo Rich Lewis, Professor of the Theory and History of Music, Tufts College

Tufts College, A.B., 1887; Harvard University, A.B., 1888, and A.M., 1889

Ralph Lyman Baldwin, Supervisor of Music, Hartford Public Schools, Hartford, Conn.

### PHYSICS

William Hallock.....Professor of Physics, Columbia University  
Columbia University, A.B., 1879; University of Würzburg, Ph.D., 1881; National College of Pharmacy, Phar.D., 1892

William Edward McElfresh.....Professor of Physics, Williams College  
Illinois College, A.B., 1888; Harvard University, A.M., 1896, and Ph.D., 1900

Frederick Edmund Sears....Master in St. Paul's School, Concord, N. H.  
Harvard College, A.B., 1895

### SPANISH

Jeremiah Denis Mathias Ford, Smith Professor of Romance Languages, Harvard University

Harvard University, A.B., 1894, A.M., 1895, and Ph. D., 1897

William Wistar Comfort, Professor of Romance Languages and Literatures, Cornell University

Haverford College, A.B., 1894; Harvard University, A.B., 1895, A.M., 1896, and Ph.D., 1902

William Thaddeus Strong, Master in the English High School, Boston, Mass.

Yale University, A.B., 1876, and A.M., 1881

### ZÖÖLOGY

George Howard Parker.....Professor of Zoölogy, Harvard University  
Harvard University, S.B., 1887, and S.D., 1891

Charles Wright Dodge....Professor of Biology, University of Rochester.  
University of Michigan, B.S., 1886, and M.S., 1889

James Edward Peabody, Head of Department of Biology, Morris High School, New York, N. Y.

Williams College, A.B., 1892; Harvard University, A.M., 1896

The  
Examinations

The examinations were held during the week beginning June 14, in accordance with the time schedule printed on pages 4 and 5 of Document No. 38. The total number of candidates was 3,466, an increase of 216 over the number of candidates examined in 1908, and 418 over the number examined in 1907.

The candidates attending the Board's examinations in the years 1907 to 1909, inclusive, classified according to the points at which they were examined, were as indicated in the following table:

TABLE I

	NEW ENGLAND	MIDDLE STATES	SOUTH AND WEST	FOREIGN
1907.....	958	1670	414	6
1908.....	1106	1669	465	10
1909.....	1404	1579	467	16

Classified according to the institutions that they expected to enter, the candidates were as indicated in the following table:

TABLE II

	NEW ENGLAND	MIDDLE STATES	SOUTH AND WEST	CANADA	NOT STATED
1907....	1273	1444	75	0	256
1908....	1327	1510	69	2	342
1909....	1727	1341	85	0	313

Classified according to residence, the candidates were as indicated in the following table:

TABLE III

	NEW ENGLAND	MIDDLE STATES	SOUTH AND WEST	FOREIGN	NOT STATED
1907....	711	1769	550	11	7
1908....	812	1802	615	17	4
1909....	1026	1783	630	25	2

The examinations were held at 167 points, as shown in the following table:

TABLE IV

PLACES AT WHICH EXAMINATIONS WERE HELD JUNE 14-19, 1909, AND THE NUMBER OF CANDIDATES EXAMINED AT EACH PLACE

## NORTH ATLANTIC DIVISION

## Maine:

Augusta .....	4
Portland .....	33
—	37

## New Hampshire:

Concord .....	115
Exeter .....	51
Hanover .....	15
Hillsboro .....	6
Kenne .....	18

## NORTH ATLANTIC DIVISION

## New Hampshire:

Manchester .....	15
Newport .....	0
Tilton .....	19
—	239

## Vermont:

Bellows Falls .....	8
Burlington .....	2
Rutland .....	2
—	12



NORTH ATLANTIC DIVISION

Massachusetts:

Andover ..... 35

Beverly ..... 27

Boston:

Boston University.. 73

Massachusetts Institute of Technology 115

Cambridge ..... 31

Gloucester ..... 16

Great Barrington .... 10

Groton ..... 67

Holyoke ..... 29

Hyannis ..... 2

Leominster ..... 32

Mount Hermon ..... 6

New Bedford ..... 14

Newburyport ..... 24

Northampton ..... 57

Norton ..... 11

Norwood ..... 15

Pittsfield ..... 14

Southborough ..... 63

South Hadley ..... 5

Springfield ..... 47

Wellesley ..... 35

Williamstown ..... 25

Worcester ..... 39

— 792

Rhode Island:

Newport ..... 11

Providence ..... 38

Westerly ..... 12

— 61

Connecticut:

Bridgeport ..... 26

Cheshire ..... 9

Danbury ..... 4

Hartford ..... 36

Kent ..... 16

Lakeville ..... 61

Middletown ..... 6

New Haven ..... 28

Ridgefield ..... 9

Salisbury ..... 15

South Norwalk ..... 9

Stamford ..... 20

NORTH ATLANTIC DIVISION

Connecticut:

Washington ..... 12

Winsted ..... 12

— 263

New York:

Albany ..... 33

Auburn ..... 5

Binghamton ..... 6

Brooklyn ..... 94

Buffalo ..... 25

Dobbs Ferry ..... 2

Elmira ..... 2

Garden City ..... 10

Glens Falls ..... 1

Gloversville ..... 1

Hoosick ..... 9

Hudson ..... 3

Ithaca ..... 10

Lake Placid ..... 1

Newburgh ..... 5

New York:

Barnard College ... 239

Columbia University 567

New York University 31

Ossining ..... 9

Pawling ..... 7

Poughkeepsie ..... 39

Rainbow Lake ..... 5

Rochester ..... 6

Schenectady ..... 1

Syracuse ..... 23

Tarrytown ..... 13

Utica ..... 9

Watertown ..... 0

Yonkers ..... 18

— 1174

New Jersey:

Asbury Park ..... 35

Bordentown ..... 14

Lawrenceville ..... 34

Morristown ..... 26

Newark ..... 142

New Brunswick ..... 2

Paterson ..... 15

Plainfield ..... 27

Princeton ..... 8

Trenton ..... 3

— 306

## NORTH ATLANTIC DIVISION

## Pennsylvania:

Erie .....	0
Johnstown .....	7
Kittanning .....	5
Lancaster .....	7
Philadelphia .....	32
Pittsburgh .....	16
Reading .....	2
Scranton .....	5
Warren .....	1
Wayne .....	6
Wilkes-Barre .....	4
—	85

## SOUTH ATLANTIC DIVISION

## Delaware:

Wilmington .....	14
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## Maryland:

Baltimore .....	8
Port Deposit .....	5
—	13

## District of Columbia:

Washington .....	16
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## West Virginia:

Charleston .....	4
Keyser .....	1
—	5

## North Carolina:

Asheville .....	13
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## Georgia:

Atlanta .....	1
Savannah .....	5
—	6

## Florida:

Jacksonville .....	3
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## SOUTH CENTRAL DIVISION

## Kentucky:

Louisville .....	13
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## Tennessee:

Memphis .....	21
Nashville .....	6
—	27

## SOUTH CENTRAL DIVISION

## Alabama:

Birmingham .....	5
Montgomery .....	3
—	8

## Louisiana:

New Orleans .....	2
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## Texas:

Dallas .....	15
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## Arkansas:

Little Rock .....	2
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## NORTH CENTRAL DIVISION

## Ohio:

Cincinnati .....	28
Cleveland .....	15
Columbus .....	1
Dayton .....	2
Toledo .....	3
Youngstown .....	10
—	59

## Indiana:

Indianapolis .....	16
Lima .....	8
—	24

## Illinois:

Chicago .....	58
Peoria .....	5
—	63

## Michigan:

Detroit .....	10
Muskegon .....	4
—	14

## Wisconsin:

Milwaukee .....	6
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## Minnesota:

Minneapolis .....	22
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## Iowa:

Burlington .....	0
Davenport .....	0
Des Moines .....	1
Dubuque .....	2
—	3

## NORTH CENTRAL DIVISION

## Missouri:

Kansas City .....	7	
St. Louis .....	13	
	—	20

## South Dakota:

Lead .....	3	
Sioux Falls .....	2	
	—	5

## Nebraska:

Omaha .....	6	
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## Kansas:

Wichita .....	0	
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## WESTERN DIVISION

## Montana:

Great Falls .....	1	
Helena .....	2	
Livingston .....	1	
	—	4

## Colorado:

Denver .....	13	
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## Utah:

Salt Lake City .....	5	
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## Washington:

Spokane .....	3	
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## Oregon:

Portland .....	26	
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## WESTERN DIVISION

## California:

Berkeley .....	33	
Eureka .....	0	
Los Angeles .....	11	
Nordhoff .....	10	
Riverside .....	1	
Stanford University ..	3	
	—	60

## INSULAR TERRITORIES

## Hawaii:

Honolulu .....	11	
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## FOREIGN

## British Honduras:

Belize .....	1	
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## England:

London .....	4	
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## France:

Paris .....	2	
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## Germany:

Berlin .....	2	
Frankfurt .....	2	
Munich .....	1	
	—	5

## Switzerland:

Geneva .....	4	
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The following table classifies the candidates according to residence:

TABLE V

## NORTH ATLANTIC DIVISION

Maine .....	54	
New Hampshire .....	80	
Vermont .....	27	
Massachusetts .....	626	
Rhode Island .....	63	
Connecticut .....	176	
New York .....	1234	
New Jersey .....	376	
Pennsylvania .....	159	
	—	2793

## SOUTH ATLANTIC DIVISION

Delaware .....	14	
Maryland .....	20	
District of Columbia..	19	
Virginia .....	8	
West Virginia .....	8	
North Carolina .....	6	
South Carolina .....	0	
Georgia .....	10	
Florida .....	6	
	—	91



## SOUTH CENTRAL DIVISION

Kentucky .....	16
Tennessee .....	28
Alabama .....	12
Mississippi .....	4
Louisiana.....	2
Texas .....	19
Oklahoma.....	0
Indian Territory .....	0
Arkansas .....	1
—	82

## NORTH CENTRAL DIVISION

Ohio .....	93
Indiana .....	28
Illinois .....	84
Michigan .....	27
Wisconsin .....	15
Minnesota .....	26
Iowa .....	8
Missouri .....	23
North Dakota .....	1
South Dakota .....	9
Nebraska .....	7
Kansas .....	3
—	324

## WESTERN DIVISION

Montana .....	7
Wyoming .....	2
Colorado .....	17
New Mexico.....	0
Arizona .....	2

## WESTERN DIVISION

Utah .....	9
Nevada .....	0
Idaho .....	2
Washington .....	9
Oregon .....	24
California .....	63
—	135

INSULAR TERRITORIES AND DEPEND-  
ENCIES

Hawaii .....	11
Philippine Islands.....	0
Porto Rico.....	1
—	12

## FOREIGN

Canada .....	3
Central America.....	2
China .....	1
Cuba .....	1
Dominican Republic....	1
Egypt .....	2
England .....	2
France .....	3
Germany .....	1
Italy .....	1
Japan .....	1
Mexico .....	5
South Africa.....	1
Switzerland .....	1
—	25
Residence not stated.....	2

The following table classifies the candidates according to age:

TABLE VI

CANDIDATES CLASSIFIED ACCORDING TO AGE

AGE		
Twelve	years.....	1
Thirteen	" .....	2
Fourteen	" .....	18
Fifteen	" .....	188
Sixteen	" .....	617
Seventeen	" .....	982
Eighteen	" .....	855
Nineteen	" .....	484
Twenty	" .....	164

## CANDIDATES CLASSIFIED ACCORDING TO AGE

AGE		
Twenty-one	years.....	70
Twenty-two	".....	28
Twenty-three	".....	16
Twenty-four	".....	7
Twenty-five	".....	8
Twenty-six	".....	2
Twenty-seven	".....	4
Twenty-eight	".....	2
Twenty-nine	".....	2
Thirty	".....	2
Thirty-one	".....	1
Thirty-three	".....	1
Age not stated.....		12

Total..... 3466

The following table shows the several colleges and scientific schools to which the candidates declared themselves to be seeking admission:

TABLE VII

## INSTITUTIONS TO WHICH ADMISSION WAS SOUGHT BY CANDIDATES

Amherst College .....	12
Boston University .....	2
Brown University .....	58
Bryn Mawr College.....	52
Case School of Applied Science.....	1
Clark College .....	1
Colby College .....	1
Colorado School of Mines.....	1
Colgate University .....	4
Columbia University.....	683
Cornell University .....	221
Dartmouth College .....	158
George Washington University.....	1
Hamilton College .....	5
Harvard College .....	307
Haverford College .....	2
Johns Hopkins University.....	1
Lafayette College .....	1
Lehigh University .....	3
Leland Stanford Jr. University.....	21
Massachusetts Institute of Technology.....	132
Massachusetts State Agricultural College.....	1
Middlebury College .....	1
Mount Holyoke College.....	119
New York City College.....	2

New York University.....	7
Ohio State University.....	1
Ohio Wesleyan University.....	1
Pennsylvania State College.....	3
Pomona College .....	1
Princeton University .....	106
Purdue University .....	5
Radcliffe College .....	17
Randolph-Macon Woman's College.....	3
Rensselaer Polytechnic Institute.....	1
Rutgers College .....	1
Simmons College .....	15
Smith College .....	264
State School of Technology, Atlanta, Ga.....	1
Stevens Institute .....	33
Swarthmore College.....	1
Syracuse University .....	4
Trinity College, Hartford, Conn.....	3
Trinity College, Washington, D. C.....	1
Tufts College .....	1
Union College .....	8
University of California.....	20
University of Chicago.....	1
University of Maine.....	1
University of Michigan.....	6
University of Pennsylvania.....	24
University of Vermont.....	1
University of Virginia.....	3
University of Wisconsin.....	3
Vanderbilt University .....	6
Vassar College .....	176
Wellesley College .....	184
Wells College .....	4
Wesleyan University .....	22
Williams College .....	233
Woman's College of Baltimore.....	8
Worcester Polytechnic Institute.....	6
Yale University .....	188
Preference not stated.....	313
Total.....	3466

The following table classifies the candidates according to the institution last attended :



## TABLE VIII

## CANDIDATES CLASSIFIED ACCORDING TO SCHOOL LAST ATTENDED

## NORTH ATLANTIC DIVISION

## Maine:

Augusta .....	Cony High School.....	2
Farmington .....	Abbott School .....	5
Freeport .....	High School .....	1
Gardiner .....	High School .....	1
Portland .....	Deering High School.....	7
	High School .....	17
	Wayneffe School .....	6
Saco .....	Thornton Academy .....	1

## New Hampshire:

Alton .....	High School .....	2
Antrim .....	High School .....	1
Concord .....	High School .....	8
	St. Paul's School.....	103
	St. Mary's School.....	1
Exeter .....	Phillips Exeter Academy.....	50
Franconia .....	Dow Academy .....	1
Hillsboro .....	High School .....	5
Keene .....	High School .....	14
Manchester .....	High School .....	13
Meriden .....	Kemball Union Academy.....	1
Mount Vernon .....	Stearns School .....	5
Nashua .....	High School .....	3
Penacook .....	High School .....	1
Plymouth .....	Holderness School for Boys.....	3
Portsmouth .....	High School .....	1
Tilton .....	Tilton Seminary .....	18
West Lebanon.....	High School .....	1
Winchester .....	High School .....	2

## Vermont:

Bellows Falls.....	High School .....	3
Brattleboro .....	High School .....	1
Burlington .....	High School .....	1
Chester .....	High School .....	2
Fair Haven.....	High School .....	1
Montpelier .....	High School .....	1
Saxton's River.....	Vermont Academy .....	1
Shelburne .....	High School .....	1
South Royalton.....	High School .....	1
Windsor .....	High School .....	1
Woodstock .....	High School .....	2

## Massachusetts:

Andover .....	Phillips Academy .....	25
Arlington .....	High School .....	1

Ashburnham .....	Cushing Academy .....	4
Attleboro .....	High School .....	1
Baddwinsville .....	Templeton High School.....	2
Beverly .....	High School .....	11
Boston .....	Berkeley Preparatory School.....	2
	Boston Latin School.....	4
	Chamberlayne's (Miss) School.....	1
	Classical School for Girls.....	10
	Curtis-Peabody School .....	1
	De Merritte School.....	1
	English High School.....	2
	Girls' High School.....	2
	Girls' Latin School.....	1
	Haskell's (Miss) and Dean's (Miss) School	2
	High School of Commerce.....	1
Boston .....	Linfield School .....	1
	May's (Misses) School.....	4
	Noble and Greenough School.....	1
	Roxbury Latin School.....	2
	Stone School .....	2
	Volkman School .....	17
	von Mach's (Mrs.) School.....	4
	Winsor's (Miss) School.....	2
Brookline .....	High School .....	1
Cambridge .....	Berkeley Street School.....	1
	Brown and Nichols School.....	1
	Cambridge Latin School.....	8
	Gilman School .....	3
	Lee School .....	5
	Manter Hall .....	13
	Rindge Manual Training School.....	6
	Smith's (Miss) Private School.....	1
Canton .....	High School .....	3
Charlton .....	High School .....	1
Chelmsford .....	High School .....	1
Cohasset .....	High School .....	1
	Osgood School .....	2
Concord .....	Concord School .....	3
	High School .....	12
	St. Andrews School.....	2
Conway .....	High School .....	1
Dalton .....	High School .....	2
Deerfield .....	Deerfield Academy .....	3
Dorchester .....	High School .....	5
Duxbury .....	Powder Point School.....	2
East Bridgewater.....	High School .....	1
Easthampton .....	High School .....	2
	Williston Seminary .....	4
East Northfield.....	Northfield Seminary.....	3

Essex .....	High School .....	4
Fairhaven .....	High School .....	3
Fall River.....	B. M. C. Durfee High School.....	1
Falmouth .....	Lawrence High School.....	2
Fitchburg .....	High School .....	4
Foxboro .....	High School .....	2
Framingham .....	High School .....	3
Franklin .....	Dean Academy .....	3
Gardner .....	High School .....	1
Georgetown .....	Perley Free School.....	4
Gilbertville .....	Hardwick High School.....	2
Gloucester .....	High School .....	15
Great Barrington.....	Hallock School .....	6
	Searles High School.....	3
Groton .....	Groton School .....	73
	Lawrence Academy .....	4
Haverhill .....	High School .....	5
Hingham Center.....	High School .....	1
Holbrook .....	Sumner High School.....	1
Holliston .....	High School .....	1
Holyoke .....	High School .....	29
Hudson .....	High School .....	1
Hyannis .....	Barnstable High School.....	1
Ipswich .....	Manning High School.....	5
Lancaster .....	High School .....	3
Lawrence .....	High School .....	2
Lee .....	High School .....	5
Lenox .....	High School .....	2
Leominster .....	High School .....	20
Lexington .....	High School .....	2
	Lexington Private School.....	1
Littleton .....	High School .....	3
Lowell .....	Rogers Hall School.....	1
Ludlow .....	High School .....	1
Lynn .....	Classical High School.....	1
	English High School.....	1
Malden .....	High School .....	4
Marblehead .....	High School .....	2
Medford .....	Ryder's (Miss) School.....	1
Merrimac .....	High School .....	1
Middlesex .....	Middlesex School .....	1
Milton .....	Milton Academy .....	6
Mount Hermon.....	Mount Hermon School.....	3
Natick .....	High School .....	2
	Walnut Hill School.....	24
New Bedford.....	High School .....	6
Newburyport .....	High and Putnam School.....	12
Newton .....	Mount Ida School.....	3
Newtonville .....	Newton High School.....	4

North Adams .....	Drury High School.....	2
Northampton .....	Capen's (Miss) School.....	23
	High School .....	31
	St. Michael's High School.....	2
North Attleboro.....	High School .....	1
North Easton.....	Oliver Ames High School.....	2
Northfield .....	High School .....	2
Norton .....	Wheaton Seminary .....	9
Norwood .....	High School .....	9
Orange .....	High School .....	1
Peabody .....	High School .....	4
Pittsfield .....	Hall School for Girls.....	1
	High School .....	3
Plymouth .....	High School .....	1
Quincy .....	High School .....	2
Revere .....	High School .....	2
Roxbury .....	Elm Hill School.....	1
	High School .....	1
Salem .....	Classical and High School.....	7
Sharon .....	High School .....	1
Sheffield .....	Berkshire School .....	1
Shrewsbury .....	High School .....	2
Southborough .....	St. Mark's School.....	61
	Peters High School.....	1
South Braintree.....	Thayer Academy .....	4
Southbridge .....	High School .....	1
Spencer .....	David Prouty High School.....	2
Springfield .....	American International Academy.....	2
	Central High School.....	27
	Elms (The) .....	2
	MacDuffie School .....	2
	Pitkin's School .....	1
	Technical High School.....	9
Stockbridge .....	High School .....	1
Stoneham .....	High School .....	1
Stow .....	Hale High School.....	1
Swampscott .....	High School .....	3
Taunton .....	High School .....	1
Topsfield .....	High School .....	2
Uxbridge .....	High School .....	1
Walpole .....	High School .....	1
Waltham .....	High School .....	2
Watertown .....	Phillips High School.....	2
Wayland .....	High School .....	1
Wellesley .....	Dana Hall .....	9
	High School .....	1
West Boylston.....	High School .....	2
Westfield .....	High School .....	1
West Newton.....	Allen School .....	6



West Springfield.....	High School .....	1
Williamstown .....	High School .....	1
	Northside College Preparatory School...	5
Winthrop .....	High School .....	4
Worcester .....	Academy of the Sacred Heart.....	1
	Classical High School.....	4
	Holy Cross College.....	1
	Kimball's (Miss) School.....	1
	South High School.....	1
	Worcester Academy .....	23
Rhode Island:		
Central Falls.....	High School .....	1
Newport .....	Rogers High School.....	2
	St. George's School.....	30
Pawtucket .....	High School .....	1
Providence .....	English High School.....	2
	Hope Street High School.....	10
	Lincoln School .....	2
	Moses Brown School.....	4
	Technical High School.....	2
	Wheeler's (Miss) School.....	3
Wakefield .....	South Kingstown High School.....	5
Westerly .....	High School .....	5
	Pawcatuck High School.....	2
Wickford .....	North Kingstown High School.....	2
Connecticut:		
Bethal .....	High School .....	2
Black Hall .....	Black Hall School.....	6
Bridgeport .....	High School .....	19
	University School .....	1
Bristol .....	High School .....	4
Cheshire .....	Cheshire School .....	7
Colchester .....	Bacon Academy .....	1
Collinsville .....	High School .....	1
Danbury .....	High School .....	1
Deep River.....	High School .....	1
Farmington .....	Porter's (Miss) School.....	6
Glastonbury .....	High School .....	1
Greens Farms.....	Seaboard School .....	1
Greenwich .....	Brunswick School .....	5
	Ely Court .....	2
	Greenwich Academy .....	5
Hartford .....	High School .....	4
Kent .....	Kent School .....	15
Lakeville .....	Hotchkiss School .....	62
Meriden .....	High School ....	1
Middletown .....	High School .....	2

Naugatuck .....	High School .....	1
New Britain.....	Public High School.....	8
New Haven.....	High School .....	1
	Johnstone's (Miss) School.....	15
New Milford.....	High School .....	3
Norfolk .....	Robbins School .....	2
Norwalk .....	Baird's (Miss) School.....	1
	Elizabeth Mead School.....	1
	Harstron School .....	2
	Overlook Military Academy.....	1
Norwich .....	Norwich Free Academy.....	3
Pomfret Center.....	Pomfret School .....	1
Redding Ridge.....	Sanford School .....	1
Ridgefield .....	Ridgefield School .....	9
Salisbury .....	Salisbury School .....	15
Seymour .....	High School .....	1
Simsbury .....	High School .....	2
	Westminster School .....	1
South Manchester....	High School .....	3
South Norwalk.....	High School .....	5
Stamford .....	Katherine Aiken School.....	1
	Low's (Miss) School.....	1
	Manor School .....	5
Stratford .....	High School .....	5
Suffield .....	Connecticut Literary Academy.....	1
Wallingford .....	Choate School .....	3
	High School .....	1
Washington .....	Gunnery School .....	2
	The Ridge .....	5
	Wykeham Rise .....	5
Waterbury .....	Crosby High School.....	3
	High School .....	1
Watertown .....	Baldwin School .....	1
	Taft School .....	2
Wethersfield .....	High School .....	1
Willimantic .....	Windham High School.....	1
Windsor .....	High School .....	1
Winsted .....	Gilbert School .....	9
New York:		
Albany .....	Albany Academy .....	19
	Albany Girls' Academy.....	1
	High School .....	1
	St. Agnes's School.....	3
Amsterdam .....	High School .....	1
Auburn .....	Academic High School.....	4
Binghamton .....	Central High School.....	3
Brewster .....	High School .....	1
Briarcliff Manor.....	Mrs. Dow's School.....	1

Bronxville .....	Brantwood Hall .....	1
Brooklyn .....	Adelphi Academy .....	8
	Berkeley Institute .....	1
	Boys' High School.....	42
	Brooklyn Evening High School.....	1
	Brooklyn Heights Seminary.....	1
	Brooklyn Preparatory School.....	1
	Eastern District High School.....	2
	Eastern Evening High School.....	1
	Erasmus Hall High School.....	8
	Girls' High School.....	2
	Heffley Preparatory School.....	4
	Manual Training High School.....	2
	Packer Collegiate Institute.....	5
	Polytechnic Preparatory School.....	41
	Prospect Heights School.....	4
Buffalo .....	Franklin School .....	3
	Lafayette High School.....	7
	Masten Park High School.....	1
	Nichols School .....	7
Catskill .....	High School .....	1
Cazenovia .....	Cazenovia Seminary .....	1
Chatham .....	High School .....	1
Clyde .....	High School .....	1
Cornwall-on-Hudson ..	Cornwall Heights School.....	7
	New York Military Academy.....	1
Cortland .....	State Normal School.....	2
Dobbs Ferry.....	Mackenzie School .....	2
Far Rockaway.....	High School .....	1
Flushing .....	High School .....	4
Freeport .....	High School .....	1
Garden City .....	St. Mary's School.....	2
	St. Paul's School.....	9
Geneseo .....	State Normal School.....	1
Geneva .....	High School .....	1
Glens Falls.....	High School .....	1
Gloversville .....	High School .....	1
Hamilton .....	Colgate Academy .....	1
Harrison .....	Heathcote Hall .....	2
Hoosick .....	Hoosac School .....	9
Hudson .....	High School .....	1
Ithaca .....	Cascadilla School .....	4
	High School .....	3
	Sturgis Tutoring School.....	1
	University Preparatory School.....	2
Jamaica .....	High School .....	1
Lakemont .....	Starkey Seminary .....	1
Larchmont .....	Manor School .....	1
Livonia .....	High School .....	1

Locust Valley.....	Friends' Academy .....	1
Long Island City.....	Bryant High School.....	2
	Long Island Medical College.....	1
Mamaroneck .....	High School .....	1
Manlius .....	St. John's School.....	7
Mexico .....	High School .....	1
Millbrook .....	Bennett School .....	1
Mohegan .....	Mohegan Lake School.....	1
Mount Vernon.....	High School .....	4
	Waterman School for Boys.....	1
New Brighton.....	Curtis High School.....	4
	Staten Island Academy.....	1
Newburgh .....	Newburgh Free Academy.....	4
	Quassaick Hall .....	1
New Rochelle.....	High School .....	2
	Oaksmere School .....	1
New York.....	Alcuin Preparatory School.....	6
	Allen-Stevenson School .....	3
	Barnard School for Boys.....	6
	Barnard School for Girls.....	1
	Benjamin-Deane School .....	3
	Berkeley School .....	13
	Blessed Sacrament Convent.....	1
	Brown School of Tutoring.....	3
	Browning School .....	4
	Burroughs School .....	2
	Chapin Collegiate School.....	1
	Charlton School .....	4
	College of the City of New York.....	11
	College Preparatory Classes.....	3
	Collegiate School .....	18
	Columbia Grammar School.....	35
	Cooper Institute .....	1
	Cutler School .....	4
	Davidge's (Miss) Classes.....	1
	DeWitt Clinton High School.....	70
	Dwight School .....	5
	Ethical Culture School.....	41
	Friends' Seminary .....	3
	Gardner School .....	1
	Gordon-Winston School .....	1
	Grammar School No. 54.....	1
	Groff School .....	7
	Hamilton Institute for Girls.....	5
	Harlem Evening High School.....	2
	Harlem Preparatory School.....	14
	High School of Commerce.....	13
	Horace Mann School.....	72
	Irving School .....	11



New York.....	Jacobi's (Miss) School.....	6
	Joseph Preparatory School.....	1
	Kelvin School .....	9
	Loyola School .....	1
	Madison School for Girls.....	2
	Manhattan Preparatory School.....	1
	Merrill-VanLaer School .....	1
	Morris High School.....	50
	New York Preparatory School.....	12
	Normal College .....	1
	Ornstein's (Miss) Classes.....	1
	Oxford Academy .....	1
	Packard Commercial School.....	1
	Riverdale School .....	6
	Sachs Collegiate Institute for Boys.....	26
	Sachs School for Girls.....	8
	Senftner Preparatory School.....	2
	Spence's (Miss) School.....	1
	St. Agatha School.....	7
	St. Mary's School.....	2
	Stone (A.) Tutoring School.....	1
	Stuyvesant High School.....	14
	Syms School .....	3
	Trinity School .....	15
	Veltin School .....	8
	Wadleigh High School.....	59
	Washington Irving High School.....	3
Norwich .....	High School .....	1
Ossining .....	Holbrook's (Dr.) School.....	3
	Mount Pleasant Academy.....	7
Patchogue .....	High School .....	1
Pawling .....	Pawling School .....	8
Peekskill .....	Peekskill Academy .....	1
Pine Plains.....	High School .....	1
Poughkeepsie .....	High School .....	1
	Lyndon Hall .....	3
	Putnam Hall .....	4
	Riverview Academy .....	27
Rainbow Lake.....	Adirondack-Florida School .....	5
Richmond Hill.....	High School .....	2
Rochester .....	East High School.....	3
Scarsdale .....	Lockwood Collegiate School.....	1
	St. David's Hall.....	3
Syracuse .....	Central High School.....	1
	Goodyear-Burlingame School .....	6
	High School .....	2
	North High School.....	1
	Travis Preparatory School.....	1
Tarrytown .....	Hackley School .....	12

Tarrytown .....	Irving School .....	1
	Metcalf's (The Misses) School.....	1
Troy .....	Emma Willard School.....	6
	Troy Academy .....	1
Union Springs.....	Oakwood Seminary .....	1
Utica .....	Utica Free Academy.....	4
Waterford .....	High School .....	1
Waterloo .....	High School .....	1
Waterville .....	High School .....	1
White Plains.....	High School .....	2
Yonkers .....	Halsted School .....	2
	High School .....	12
<b>New Jersey:</b>		
Asbury Park.....	High School .....	7
Atlantic City.....	High School .....	1
Bayonne .....	High School .....	7
Belleville .....	High School .....	1
Blairstown .....	Blair Academy .....	2
Bloomfield .....	High School .....	1
Bordentown .....	Bordentown Military Institute.....	14
Bridgeton .....	Ivy Hall School.....	4
Cape May.....	Middle Township High School.....	1
Clinton .....	High School .....	1
East Orange.....	High School .....	23
Elizabeth .....	Battin High School.....	7
	Pingry School .....	3
	Vail-Deane School .....	2
Englewood .....	High School .....	5
Essex Falls.....	Kingsley School .....	3
Flemington .....	Reading Academy .....	1
Freehold .....	High School .....	3
Glen Ridge.....	High School .....	2
Hackensack .....	High School .....	11
	Newman School .....	1
Hackettstown .....	Centenary Collegiate Institute.....	6
Hoboken .....	High School .....	3
	Hoboken Academy .....	1
	Stevens School .....	8
Jersey City.....	Bergen School for Girls.....	2
	Hasbrouck Institute .....	4
	High School .....	10
Lakewood .....	Knox School .....	2
Lawrenceville .....	Lawrenceville School .....	34
Montclair .....	High School .....	24
	Montclair Academy .....	3
Morristown .....	Dana's (Miss) School.....	1
	Morris Academy .....	2
	Morristown School .....	17
Newark .....	Barringer High School.....	5

Newark .....	Craven's (Miss) School.....	5
	High School .....	6
	Newark Academy .....	32
New Brunswick.....	Rutgers Preparatory School.....	3
North Plainfield.....	High School .....	1
Nutley .....	High School .....	4
Ocean Grove.....	Neptune Township High School.....	1
Orange .....	Beard's (Miss) School.....	5
	Carteret Academy .....	4
	Dearborn Morgan School.....	4
	High School .....	2
Passaic .....	Collegiate School .....	1
	High School .....	5
Paterson .....	Collegiate Institute .....	2
	High School .....	4
	Normal School .....	1
Pennington .....	Pennington Seminary .....	3
Perth Amboy.....	High School .....	1
Plainfield .....	Hartridge School .....	9
	High School .....	11
	Leal's (Dr.) School for Boys.....	5
Princeton .....	Princeton Preparatory School.....	3
	Princeton School .....	6
Red Bank.....	High School .....	7
Ridgewood .....	Ridgewood Preparatory School.....	1
South Orange.....	High School .....	5
Spring Lake.....	Calhoun-Chamberlain School .....	1
Summit .....	High School .....	6
	Kent Place School.....	1
	Summit Academy .....	3
Trenton .....	High School .....	2
Union .....	High School .....	1
West Hoboken.....	High School .....	3
West Orange.....	High School .....	5
Pennsylvania:		
Altoona .....	High School .....	1
Ardmore .....	Lower Merion High School.....	1
Bethlehem .....	Moravian Seminary .....	1
Braddock .....	High School .....	1
Bryn Mawr.....	The Baldwin School.....	8
Camptown .....	Wyalusing Township High School.....	1
Carbondale .....	High School .....	2
Carlisle .....	Metzger School .....	1
Chestnut Hill.....	Kirk's (The Misses) School.....	3
Clearfield .....	High School .....	1
Harrisburg .....	High School .....	1
Jeannette .....	High School .....	1
Johnstown .....	High School .....	6

Kennett Square.....	Cedarcroft School .....	1
Kingston .....	Wyoming Seminary .....	1
Kittanning .....	High School .....	5
Lancaster .....	Shippen School .....	1
	Yeates School.....	2
Mansfield .....	Mansfield State Normal School.....	1
Mechanicsburg .....	Irving College .....	1
Mercersburg .....	Mercersburg Academy .....	2
Ogontz .....	Ogontz School .....	1
Philadelphia .....	Central High School.....	1
	Chestnut Hill Academy.....	2
	Drexel Evening Institute.....	1
	Episcopal Academy .....	2
	Friends' Central School.....	1
	Girls' High School.....	1
	Gordon's (Miss) School.....	1
	Hill's (Miss) School.....	1
	Holman School for Girls.....	1
	Sayward's (Miss) School.....	1
	Smith's (Miss M. W.) Class for Girls...	1
	Stevens School .....	1
	William Penn Charter School.....	2
Pittsburg .....	Pennsylvania College for Women.....	1
	Shady Side Academy .....	2
	Stuart-Mitchell School .....	1
Pottstown .....	Hill School .....	2
Reading .....	High School for Girls.....	1
Scranton .....	School of the Lackawanna.....	1
Sewickley .....	High School .....	2
Tidioute .....	High School .....	2
Towanda .....	High School .....	1
Uniontown .....	High School .....	1
Warren .....	High School .....	1
Wayne .....	St. Luke's School.....	4
Wellsboro .....	High School .....	1
West Chester.....	State Normal School.....	1
Wilkes-Barre .....	City High School .....	1

**SOUTH ATLANTIC DIVISION****Delaware:**

Wilmington .....	Friends' School .....	8
	Hebb's (The Misses) School.....	5
	High School .....	1

**Maryland:**

Baltimore .....	Bryn Mawr School .....	1
	Country School for Boys.....	1
	Eastern High School.....	1
	Girls' Latin School.....	1
	Western High School.....	1



Denton .....	Caroline High School.....	1
Glencoe .....	" Oldfields " .....	1
Hagerstown .....	Washington County Boys' High School..	1
Port Deposit.....	Jacob Tome Institute.....	4

District of Columbia:

Washington .....	Emerson Institute .....	1
	Holton Arms School.....	1
	National Cathedral School.....	2
	Western High School.....	6

Virginia:

Alexandria .....	Episcopal High School.....	2
Casanova .....	Western Home School.....	1
Lynchburg .....	High School .....	1
Orange .....	Woodberry Forest School.....	2
Roanoke .....	Virginia College .....	1
Staunton .....	Staunton Military Academy.....	1

North Carolina:

Asheville .....	Asheville School .....	12
	Bingham School .....	1
	Ford's (Miss) Private School.....	1
Raleigh .....	St. Mary's School.....	1

Georgia:

Atlanta .....	Atlanta University .....	1
	Woodberry's (Miss) School.....	1
Savannah .....	Haskell-Pape School .....	2

Florida:

Jacksonville .....	Duval High School.....	1
Orlando .....	High School .....	1
West Palm Beach.....	High School .....	1

SOUTH CENTRAL DIVISION

West Virginia:

Charleston .....	High School .....	4
Keyser .....	Preparatory School of University of West Virginia .....	1
Wheeling .....	High School .....	1

Kentucky:

Covington .....	High School .....	1
Louisville .....	Girls' High School.....	1
	Kentucky Home School.....	4
	Male High School.....	1
	Patterson-Davenport School.....	3

Tennessee:

Chattanooga .....	High School .....	2
Memphis .....	Higbee School .....	1

Memphis .....	High School .....	4
	St. Mary's School.....	2
	Thomas's (The Misses) School.....	2
	University School .....	13
Nashville .....	Wallace University School.....	3
Alabama:		
Birmingham .....	High School .....	3
	Margaret Allen School.....	2
Huntsville .....	Butler School .....	1
Montgomery .....	Girls' High School.....	2
	Starke's Montgomery School.....	1
Mississippi:		
Columbus .....	Mississippi Industrial Institute and Col- lege .....	1
Texas:		
Dallas .....	Central High School.....	2
	Cowart Hall.....	4
	Holley's (Miss) School.....	8
	St. Mary's College.....	1
El Paso .....	High School .....	1
Louisiana:		
New Orleans.....	University School .....	1
Arkansas:		
Little Rock .....	High School .....	1
NORTH CENTRAL DIVISION		
Ohio:		
Cincinnati .....	College Preparatory School for Girls.....	9
	Educational Institute .....	2
	Hughes High School.....	1
	University School .....	12
	Walnut Hills High School.....	2
Cleveland .....	Central High School.....	1
	East High School.....	1
	Hathaway-Brown School .....	7
	University School .....	2
Dayton .....	Miss Howe and Miss Marot's School....	1
	Steele High School.....	1
East Palestine.....	High School .....	1
Findlay .....	High School .....	1
Findlay .....	High School .....	1
Toledo .....	Central High School.....	2
	Smead School .....	1
Wyoming .....	High School .....	2
Youngstown .....	Rayen School .....	8
Zanesville .....	High School .....	2

Indiana:

Indianapolis .....	Butler College .....	1
	Shortridge High School.....	1
	Tudor Hall .....	2
Lafayette .....	High School .....	2
Lebanon .....	High School .....	2
Lima .....	Howe Military School.....	8
Logansport .....	High School .....	1
Muncie .....	High School .....	1
New Albany .....	High School .....	2
Richmond .....	High School .....	1
Terre Haute.....	King-Crawford Classical School.....	3
	Rose Polytechnic Institute.....	1
Valparaiso .....	Valparaiso University .....	1

Illinois:

Benton .....	High School .....	1
Champaign .....	University of Illinois.....	1
Chicago .....	Armour Institute .....	1
	Calumet High School.....	1
	Chicago Latin School.....	11
	Hyde Park High School.....	1
	Stickney School .....	1
	University School.....	15
	University School for Girls.....	3
Galesburg .....	Knox College .....	1
Joliet .....	Joliet Township High School.....	3
Kenilworth .....	College School .....	2
La Grange.....	Lyons Township High School.....	1
Oak Park.....	Oak Park and River Forest Township High School .....	2
Peoria .....	High School .....	3
Riverside .....	High School .....	1
Rockford .....	Rockford College .....	1
Upper Alton.....	Western Military Academy.....	1

Michigan:

Battle Creek.....	Public High School.....	1
Belding .....	High School .....	1
Detroit .....	Central High School.....	1
	Detroit University School.....	7
Grand Rapids.....	Central High School.....	2
Manistee .....	High School .....	1
Menominee .....	High School .....	1
Monroe .....	St. Mary's College and Academy.....	1
Muskegon .....	High School .....	1
Niles .....	High School .....	1

Wisconsin:

Beloit .....	College Academy .....	1
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Kenosha .....	Kemper Hall .....	2
Milwaukee .....	Milwaukee Academy .....	1
	West Division High School.....	1
Oconto .....	High School .....	1
Onalaska .....	High School .....	1
Minnesota :		
Faribault .....	Shattuck School .....	5
Minneapolis .....	Central High School.....	3
	West High School.....	2
St. Cloud .....	State Normal School.....	1
St. Paul .....	Backus's (Mrs.) School for Girls.....	1
	Central High School.....	2
	Macalester College .....	1
	St. Paul Academy.....	2
Iowa :		
Clinton .....	High School .....	1
Council Bluffs .....	High School .....	1
Des Moines .....	West Des Moines High School.....	1
Dubuque .....	High School .....	2
Ottumwa .....	High School .....	1
Missouri :		
Carthage .....	High School .....	1
Glasgow .....	Pritchett College .....	1
Kansas City .....	Central High School.....	1
	Westport High School.....	2
Kirkwood .....	High School .....	1
Princeton .....	High School .....	1
St. Louis .....	Central High School.....	1
	Manual Training High School.....	2
	Mary Institute .....	6
	University School .....	1
North Dakota :		
Fargo .....	North Dakota Agricultural College.....	1
South Dakota :		
Lead .....	High School .....	3
Sioux Falls .....	All Saints School.....	2
Nebraska :		
Omaha .....	Brownell Hall .....	2
	High School .....	2
Kansas :		
Atchison .....	College Preparatory School.....	1
WESTERN DIVISION		
Montana :		
Billings .....	High School .....	1



# College entrance examination board

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Great Falls .....	High School .....	1
Helena .....	High School .....	1
Colorado:		
Denver .....	Carter's (Miss) School.....	1
	Denver Normal and Preparatory School..	1
	East Side High School.....	5
	Speer's (Mrs.) Latin School.....	1
	West Denver High School.....	1
Golden .....	High School .....	1
Pueblo .....	Centennial High School.....	1
Arizona:		
Tucson .....	Arizona University .....	1
Utah:		
Ogden .....	High School .....	1
Provo City .....	Telluride Institute .....	1
Salt Lake City.....	High School .....	3
Washington:		
Seattle .....	Lincoln High School.....	1
Spokane .....	High School.....	2
	Houston School .....	1
Tacoma .....	High School .....	1
Vancouver .....	High School .....	1
Oregon:		
Portland .....	Allen Preparatory School.....	7
	Lincoln High School.....	2
	Portland Academy .....	5
	St. Helen's Hall.....	8
California:		
Auburn .....	Placer County High School.....	1
Belmont .....	Belmont School .....	2
Berkeley .....	"A to Zed" School.....	2
Claremont .....	Pomona College .....	1
Hollywood .....	Union High School.....	1
Los Angeles .....	Girls' Collegiate School.....	1
	Harvard School .....	2
	Polytechnic High School.....	1
	Yale School .....	1
Lowell .....	High School .....	2
Nordhoff .....	Ojai School for Girls.....	1
	Thacher School .....	8
Pasadena .....	Los Robles School .....	1
Riverside .....	High School .....	1
San Francisco .....	Drew's Coaching School.....	1
	Lyceum Preparatory School.....	15

San Francisco .....	Preeman Coaching School.....	4
	Raymond Coaching School.....	4
Santa Barbara .....	Hicks School .....	I
Stockton .....	High School .....	I
Wilmington .....	Union High School.....	I
INSULAR TERRITORIES AND DEPENDENCIES		
Hawaii:		
Honolulu .....	Oahu College .....	II
FOREIGN		
Belgium:		
Namur .....	Notre Dame de la Paix.....	I
Canada (Quebec):		
Lennoxville .....	Bishop's College School.....	I
Central America (Hon- duras):		
Belize .....	High School .....	I
China:		
Shanghai .....	Tung Wen College.....	I
England:		
Cheltenham .....	Cheltenham College .....	I
Rugby .....	Rugby School .....	I
France:		
Paris .....	Anglo-Saxon School .....	I
	Ecole Spéciale des Travaux Publics.....	I
Germany:		
Berlin .....	Willard School .....	I
Hamburg .....	Stiftungsschule of 1815.....	I
Munich .....	Dr. Coit's School.....	I
Greece:		
Aegion .....	Aegion College .....	I
Scotland (Perthshire):		
Glen Almond .....	Trinity College .....	I
Switzerland:		
Ouchy-Lausanne .....	Auckenthaler's (Dr. Max) School.....	I
Geneva .....	Chateau de Lancy.....	I
	College International.....	I
STUDENTS:		
Brown University .....		I
Columbia University .....		37
Cornell University .....		5

Harvard University .....	3
Leland Stanford Junior University.....	1
Massachusetts Institute of Technology.....	1
Mount Holyoke College.....	1
New York University.....	2
Purdue University .....	2
University of Chicago.....	1
University of Nebraska.....	1
University of Pennsylvania.....	1
Williams College .....	11
Preparatory School not stated.....	16
Private Tutors.....	44

The following table classifies the candidates examined according to the type of institution previously attended:

TABLE IX

	SCHOOLS	CANDIDATES
Public High Schools.....	384	1332
Endowed Academies .....	88	750
Private Schools .....	302	1257

In this table no account is taken of candidates already admitted to college or of candidates from institutions in regard to which the Secretary is without adequate information.

**Readers**                      The number of readers this year was 122, of whom 75 were representatives of colleges and 47 were representatives of secondary schools. The names of the readers are given in the following list:

#### BOTANY

- Carlton Clarence Curtis, Adjunct Professor of Botany, Columbia University  
Syracuse University, A.B., 1889; Columbia University, A.M., 1892; Syracuse University, Ph.D., 1893
- Elsie Kupfer, Head of Department of Biology, Wadleigh High School, New York, N. Y.  
Columbia University, A.B., 1899, A.M., 1901, and Ph. D., 1907

#### CHEMISTRY

- James Flack Norris.....Professor of Chemistry, Simmons College  
The Johns Hopkins University, A.B., 1892, and Ph.D., 1895
- Victor John Chambers, Professor of Chemistry, University of Rochester  
University of Rochester, B.S., 1895; The Johns Hopkins University, Ph.D., 1901

- Latham Clarke.....Instructor in Chemistry, Harvard University  
Rhode Island College, B.S., 1902; Brown University, A.M., 1903; Harvard University, Ph.D., 1905
- Augustus Klock, Head of Department of Science, Beverly High School,  
Beverly, Mass.  
Harvard University, A.B., 1902
- Walter George Whitman, Instructor in Physics and Chemistry, Ethical  
Culture School, New York, N. Y.  
Tufts College, A.B., 1898; Columbia University, A.M., 1907
- Roland Hugh Williams.....Instructor in Physical Science  
Wesleyan University, B.S., 1898; Columbia University, A.M., 1904

**DRAWING**

- Thomas Henry Harrington, Instructor in Drawing, Columbia University  
Columbia University, C.E., 1889
- Arthur H. Flint, Teacher of Drawing, Commercial High School, Brooklyn,  
N. Y.
- Morris Francis Weinrich, Assistant in Drawing, Columbia University  
Columbia University, M.E., 1904, A.M., 1907, and Ph.D., 1909

**ENGLISH**

- Clark Sutherland Northup, Assistant Professor of the English Language  
and Literature, Cornell University  
Cornell University, A.B., 1893, and Ph.D., 1898
- Nathaniel Waring Barnes, Professor of Rhetoric and English Composi-  
tion, De Pauw University  
Columbia University, A.B., 1903, and A.M., 1905
- Henry Adams Bellows.....Assistant in English, Harvard University  
Harvard University, A.B., 1906
- Ernest Bernbaum.....Instructor in English, Harvard College  
Harvard University, A.B., 1902, A.M., 1905, and Ph.D., 1907
- Daniel B. Duncan, Teacher of English, Columbia Grammar School, New  
York, N. Y.  
Upper Iowa University, Ph.B., 1890
- Charles Galwey, Tutor in the English Language and Literature, College  
of the City of New York  
New York University, A.B., 1901
- William Echard Golden, Head of English Department, Polytechnic Pre-  
paratory School, Brooklyn, N. Y.  
Indiana University, A.B., 1888, and A.M., 1890
- Grace Harriet Kupfer, Principal and Instructor in English, Alcuin Pre-  
paratory School  
Normal College, A.B., 1892; New York University, A.M., 1900
- Roger Labaree Lewis.....Assistant in English, Harvard College  
Harvard University, A.B., 1906
- Horace Mack 2d, Head of Department of English, St. Luke's School,  
Wayne, Pa.  
Cornell University, L.B., 1891
- Malcolm McLeod.....Assistant in English, Harvard University  
Harvard University, A.B., 1904, and A.M., 1906



Mary Elizabeth Ryder, Teacher of English in the High School, Rutherford, N. J.

Oberlin College, A.B., 1903

Bird Williams Stair... Tutor in English, College of the City of New York  
Purdue University, B.S., 1899, and M.S., 1901

Harrison Ross Steeves..... Tutor in English, Columbia University  
Columbia University, A.B., 1903, and A.M., 1904

John Warner Taylor..... Tutor in English, Columbia University  
Columbia University, A.B., 1903, and A.M., 1905

Mabel Morris Ufford, Head of Department of English, St. Agatha School,  
New York, N. Y.

Smith College, B.L., 1899; Columbia University, A.M., 1905

Edward Harlan Webster, Teacher of English, Polytechnic Preparatory  
School, Brooklyn, N. Y.

### FRENCH

Albert Bushnell Johnson, Associate Professor of the Romance Languages,  
Brown University

Brown University, A.B., 1891, and A.M., 1892

Frank Elbert Brooks, Instructor in French, Teachers College, Columbia  
University

Cornell University, A.B., 1900

Jeanne Marie Louise Charvet, Tutor in French, Normal College, New  
York, N. Y.

Lycée Fénelon and Sorbonne, Paris, A.B., 1893

Louis Delamarre.. Instructor in French, College of the City of New York  
University of Paris, A.B., 1881, and A.M., 1894; New York University, Ph.D.,  
1905

Francis Harold Dike, Instructor in Modern Languages, Massachusetts  
Institute of Technology

Columbia University, A.B., 1897

John Driscoll Fitz-Gerald, Instructor in the Romance Languages and  
Literatures, Columbia University

Columbia University, A.B., 1895, and Ph.D., 1906

Francois Louis Gauthey, Instructor in French, Columbia Grammar School,  
New York, N. Y.

John Lawrence Gerig, Instructor in Romance Languages, Columbia Uni-  
versity

University of Missouri, A.B., 1898, and A.M., 1899; University of Nebraska,  
Ph.D., 1902

Katherine Kunz, Teacher of Modern Languages, The Sachs School for  
Girls, New York, N. Y.

Columbia University, A.M., 1906

Louis Alexandre Roux, Master in French and Latin, Newark Academy,  
Newark, N. J.

Brown University, A.B., 1894

Donald Clive Stuart, Instructor in Romanic Languages, Princeton University

University of Michigan, A.B., 1903, and A.M., 1904

Felix Weill, . . . . . Instructor in French, College of the City of New York  
University of Paris, A.B., 1888, and A.M., 1892

### GEOGRAPHY

Charles Peter Berkey, . . . . . Instructor in Geology, Columbia University  
University of Minnesota, B.S., 1892, M.S., 1893, and Ph.D., 1897

William Wallace Clendenin, Teacher of Physiography, Wadleigh High School, New York, N. Y.

University of Missouri, B.S., 1886, and M.S., 1889; Harvard University, A.M., 1892; New York University, J.D., 1909

### GERMAN

Frank Vogel, Professor of Modern Languages, Massachusetts Institute of Technology

Harvard University, A.B., 1887, and A.M., 1892

Alexander Otto Bechert, Tutor in the Germanic Languages and Literatures, Barnard College, Columbia University

Columbia University, A.B., 1903, and A.M., 1904

Fletcher Briggs, . . . . . Instructor in German, Dartmouth College  
State University of Iowa, Ph.B., 1901, and A.M., 1902

Hermann August Buschek, Head of Department of German, Polytechnic Preparatory School, Brooklyn, N. Y.

Wesleyan University, A.B., 1901

Emilie A. Flintermann, First Instructor in German, Cass High School, Detroit, Mich.

University of Michigan, Ph.B., 1898

Clara Elsa Franke, Teacher of German, The Sachs School for Girls, New York, N. Y.

Teachers College, B.S., 1907; Columbia University, A.M., 1908

Frederick William Justus Heuser, Instructor in Germanic Languages and Literatures, Columbia University

Columbia University, A.B., 1901, and A.M., 1902

Frederick William Charles Lieder, Instructor in German, Harvard University

Cornell University, A.B., 1902, and A.M., 1903; Harvard University, Ph.D., 1907

August Prehn, Teacher of German, Columbia Grammar School, New York, N. Y.

University of Münster, Ph.D., 1883

Arthur Frank Joseph Remy, Adjunct Professor of Germanic Philology, Columbia University

College City of New York, A.B., 1890; Columbia University, A.M., 1897, and Ph.D., 1901

Melanie Constanze Richardt, Teacher of German, Barnard School for Boys, New York, N. Y.

Otto Schmitz, Master of the German Language and Literature, The Sachs Collegiate Institute, New York, N. Y.  
University of Münster, Ph.D., 1885

Rudolf Tombo.....Instructor in German, Adelphi College  
University of Rostock, Ph.D., 1870

### GREEK

Charles Knapp.....Professor of Classical Philology, Barnard College  
Columbia University, A.B., 1887, A.M., 1888, and Ph.D., 1890

Charles Cudworth Delano, Jr., Instructor in Classics and Modern Languages, Brooklyn Latin School, Brooklyn, N. Y.  
Boston University, A.B., 1898, and A.M., 1899; New York University, Ph.D., 1908

Roscoe Guernsey.....Tutor in Greek, Columbia University  
Union College, A.B., 1896; The Johns Hopkins University, Ph.D., 1901

Roland Grubb Kent, Instructor in Greek and Latin, University of Pennsylvania  
Swarthmore College, A.B., 1895, L.B., 1896, and A.M., 1898; University of Pennsylvania, Ph.D., 1903

Grace Harriet Macurdy....Associate Professor of Greek, Vassar College  
Radcliffe College, A.B., 1888; Columbia University, Ph.D., 1903

### HISTORY .

Elizabeth Briggs, Teacher of History, The Sachs School for Girls, New York, N. Y.  
Harvard Annex, 1887; Cornell University, A.M., 1891

Stillman Percy Roberts Chadwick, Instructor in History, The Phillips Exeter Academy, Exeter, N. H.  
Harvard University, A.B., 1892, and A.M., 1899

Louis Ogden Condit, Teacher of History, Long Lake Lodge, North Bridgton, Me.  
New York University, A.B., 1903

Edgar Dawson, Preceptor in History, Politics, and Economics, Princeton University  
Davidson College, A.B. 1895; University of Virginia, A.M., 1899; University of Leipzig, Ph.D., 1902

Sarah Louise Hadley, Teacher of History in the Detroit Home and Day School, Detroit, Mich.  
Wellesley College, A.B., 1896; Columbia University, A.M., 1903

Carlton Huntley Hayes.....Lecturer in History, Columbia University  
Columbia University, A.B., 1904, A.M., 1905, and Ph.D., 1909

John Haynes, Junior Master in the Dorchester High School, Boston, Mass.  
Williams College, A.B., 1888; Johns Hopkins University, Ph.D., 1895

Maude Aline Huttman, Tutor in History, Barnard College, Columbia University  
Columbia University, B.S., 1904, and A.M., 1905

Everett Kimball.....Associate Professor of History, Smith College  
Amherst College, A.B., 1896, and A.M., 1899; Harvard University, A.M., 1902, and Ph.D., 1904

David Saville Muzzey, Director of History, Ethical Culture School, New York, N. Y.

Harvard University, A.B., 1893; New York University, B.D., 1897; Columbia University, Ph.D., 1907

Frederic Austin Ogg, Assistant Professor of History, Simmons College, Boston, Mass.

De Pauw University, Ph.D., 1899; University of Indiana, A.M., 1900; Harvard University, A.M., 1904, and Ph.D., 1908

### LATIN

Nelson Glenn McCrea.....Professor of Latin, Columbia University  
Columbia University, A.B., 1885, and Ph.D., 1888

William Wilson Baker...Associate Professor of Greek, Haverford College  
Harvard University, A.B., 1898, A.M., 1899, and Ph.D., 1901

Floyd George Ballentine, Assistant Professor of Latin, Bucknell University

Bucknell University, A.B., 1889; Harvard University, A.B., 1900, A.M., 1901, and Ph.D., 1903

Barclay White Bradley, Instructor in Latin, College of the City of New York

University of Pennsylvania, A.B., 1897, and Ph.D., 1900

Anne Browning Butler, Teacher of Greek and Latin in the Sturgis Tutoring School, Ithaca, N. Y.

Cornell University, A.B., 1902, and Ph.D., 1909

Mario Emilio Cosenza, Instructor in the Latin Language and Literature, College of the City of New York

College of the City of New York, A.B., 1901; Columbia University, Ph.D., 1906

Charles Joseph Deghuée, Teacher of Latin, Trinity School, New York, N. Y.

Columbia University, A.M., 1885, and L.H.D., 1886

Caroline Morris Galt.....Instructor in Latin, Mount Holyoke College  
Bryn Mawr College, A.B., 1897

Ella Catherine Greene, Teacher of Latin, The Baldwin School, Bryn Mawr, Pa.

Vassar College, A.B., 1887

Elizabeth Hazelton Haight.....Instructor in Latin, Vassar College  
Vassar College, A.B., 1894, and A.M., 1899; Cornell University, Ph.D., 1909

Albert Arthur Hamblen, Instructor in Latin, The Protestant Episcopal Academy, Philadelphia, Pa.

Princeton University, A.B., 1905, and A.M., 1908

William Stuart Messer, Teacher of Latin and Greek, Barnard School for Boys, New York, N. Y.

Columbia University, A.B., 1905, and A.M., 1909

Katharine Campbell Reiley, Teacher of Greek and Latin, The Veltin School, New York, N. Y.

Vassar College, A.B., 1895; Columbia University, A.M., 1902, and Ph.D., 1909

Elmer Howard Sturtevant...Tutor in Classical Philology, Barnard College  
University of Indiana, A.B., 1898; University of Chicago, Ph.D., 1901



- Du Bois Tooker, Instructor in Classics, Staten Island Academy, New Brighton, N. Y.  
Harvard University, A.B., 1894, and A.M., 1906
- Elizabeth McJimsey Tyng, Teacher of Latin, Packer Collegiate Institute, Brooklyn, N. Y.  
Cornell University, A.B., 1903; Columbia University, A.M., 1904
- John William Henry Walden.....Reader at Harvard University  
Harvard University, A.B., 1888, A.M., 1889, and Ph.D., 1891
- Alice Walton, Associate Professor of Latin and Archaeology, Wellesley College  
Smith College, A.B., 1887; Cornell University, Ph.D., 1892
- Monroe Nichols Wetmore, Assistant Professor of Latin, Williams College  
Yale University, A.B., 1888, A.M., 1900, and Ph.D., 1904

### MATHEMATICS

- Robert Woodworth Prentiss, Professor of Mathematics and Astronomy, Rutgers College  
Rutgers College, B.Sc., 1878, and M.Sc., 1881
- George Monroe Brett, Tutor in Mathematics, College of the City of New York  
Bowdoin College, A.B., 1897
- Randolph Foster Clark, Instructor in Mathematics, Collegiate School, New York, N. Y.  
Williams College, A.B., 1900; New York State Normal College, Ph.B., 1902
- John R. Gardner, Teacher of Mathematics, Allen-Stevenson School, New York, N. Y.  
Upper Iowa University, B.S., 1890; State University of Iowa, C.E., 1894; Upper Iowa University, M.S., 1900
- Charles Applewhite Isaacs, Assistant in Mathematics, Columbia University  
University of Indiana, A.B., 1905; Columbia University, A.M., 1908
- Ernest Herman Koch, Jr., Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y.  
University of Pennsylvania, B.S., 1897
- Joseph Lipke, Instructor in Mathematics, Massachusetts Institute of Technology  
Columbia University, B.S., 1905, and A.M., 1906
- Wilfrid Ewart MacDonald, Instructor in Mathematics, Harvard University  
University of Tennessee, A.B., 1901; Harvard University, A.M., 1907
- Charles Ranald MacInnes, Preceptor in Mathematics, Princeton University  
Queen's University, M.A., 1896; Johns Hopkins University, Ph.D., 1900
- Arthur Ray Maxson.....Tutor in Mathematics, Columbia University  
Rollins College, A.B., 1900; Columbia University, A.M., 1905
- Helen Abbot Merrill, Associate Professor of Mathematics, Wellesley College  
Wellesley College, A.B., 1886; Yale University, Ph.D., 1903
- Frank Cochrane Moore....Instructor in Mathematics, Dartmouth College  
Dartmouth College, A.B., 1902

- Arthur Ranum.....Instructor in Mathematics, Cornell University  
University of Minnesota, A.B., 1892; University of Chicago, Ph.D., 1906
- Harry Wilfred Reddick.....Tutor in Mathematics, Columbia University  
University of Indiana, A.B., 1904; University of Illinois, A.M., 1906
- Lewis Parker Siceoff.....Tutor in Mathematics, Columbia University  
Central College, A.B., 1900
- Virgil Snyder....Assistant Professor of Mathematics, Cornell University  
Iowa State College, B.S., 1889; University of Göttingen, Ph.D., 1894
- Carl Eben Stromquist....Preceptor in Mathematics, Princeton University  
Bethany College, B.S., 1899; Yale University, Ph.D., 1903
- Camille A. Toussaint, Tutor in Mathematics, College of the City of New  
York  
Columbia University, A.B., 1903, and A.M., 1904
- Charles Burton Walsh, Teacher of Mathematics, Ethical Culture High  
School, New York, N. Y.  
Harvard University, A.B., 1906
- Mary Evelyn Wells....Instructor in Mathematics, Mount Holyoke College  
Mount Holyoke College, A.B., 1904; University of Chicago, M.S., 1907

### MUSIC

- Henry Dike Sleeper.....Professor of Music, Smith College
- Ralph Lyman Baldwin, Supervisor of Music, Hartford Public Schools,  
Hartford, Conn.

### PHYSICS

- Arthur Willis Goodspeed, Professor of Physics, University of Penn-  
sylvania  
Harvard University, A.B., 1884; University of Pennsylvania, Ph.D., 1889
- Sidney Aylmer-Small, Teacher of Physics and Chemistry, Trinity School,  
New York, N. Y.  
Columbia University, E.E., 1899
- Norman Everett Gilbert, Assistant Professor of Physics, Dartmouth  
College  
Wesleyan University, A.B., 1895, A.M., 1896; The Johns Hopkins University,  
Ph.D., 1901
- Frank Milton Gilley, Instructor in Science, High School, Chelsea, Mass.  
Harvard University, A.B., 1886
- Percy Hodge.....Instructor in Mechanics, Cornell University  
Western Reserve University, A.B., 1892; Case School of Applied Science, B.S.,  
1894; Cornell University, Ph.D., 1908
- Leighton B. Morse.....Instructor in Physics, Columbia University  
Iowa College, Ph.B., 1903; Columbia University, Ph.D., 1908

### SPANISH

- John Driscoll Fitz Gerald, Instructor in the Romance Languages and  
Literatures, Columbia University  
Columbia University, A.B., 1895, and Ph.D., 1906
- William Milwitzky, Instructor in French, Barringer High School, Newark,  
N. J.

## ZOOLOGY

James Howard McGregor, Adjunct Professor of Zoology, Columbia University

Ohio State University, B.S., 1894; Columbia University, A.M., 1896, and Ph.D., 1899

Elsie Kupfer, Head of Department of Biology, Wadleigh High School, New York, N. Y.

Columbia University, A.B., 1899, A.M., 1901, and Ph.D., 1907

The work of the readers began at half-past nine a. m. on Tuesday, June 15. It was completed by noon on Tuesday, June 29. The minimum period of time was spent by the readers in physics, who worked five days; the maximum period, by the readers in Latin, who worked twelve days.

### Results of Examinations

The following table shows the number of candidates attending each examination, and the percentage of candidates falling into each of the several grades established by the Board:

TABLE X

	Number of Candidates	% Ratings 90-100	% Ratings 75-89	% Ratings 60-74	% Ratings 50-59	% Ratings 40-49	% Ratings 30-39	% Ratings 20-29	% Ratings 10-19	% Ratings 0-9
<b>English</b>										
a. Reading .....	176	2.0	20.8	36.7	13.6	12.4	11.4	62.5	76.1	88.6
b. Study .....	147	1.0	12.4	15.7	17.1	14.7	18.1	49.1	67.3	81.9
	3074	1.6	17.1	37.9	15.6	13.4	14.4	56.6	72.2	85.6
<b>History</b>										
a. Ancient .....	734	0.4	7.5	33.1	12.0	17.8	29.2	41.0	53.0	70.8
b. Mediæval and Modern .....	30	0.0	2.6	17.0	12.8	10.3	55.4	20.5	33.3	43.6
c. English .....	244	0.8	7.3	11.7	10.9	16.8	14.5	32.8	50.8	67.5
d. American .....	544	1.8	3.3	28.7	11.0	18.2	32.0	38.8	49.3	68.0
	1711	0.9	7.6	31.0	11.5	17.5	31.4	39.6	51.0	68.6
<b>Latin</b>										
a. i. Grammar .....	1164	0.9	11.3	42.4	22.0	15.5	7.9	54.6	76.6	92.1
ii. Elementary Prose Composition .....	1152	0.5	5.0	16.8	11.3	14.8	11.6	22.3	33.6	48.4
b. Cæsar .....	441	1.3	11.2	28.4	17.0	17.7	14.9	43.2	77.1	78.1
c. Cicero .....	1024	0.7	9.0	26.3	15.9	18.6	28.4	36.0	52.4	71.6
d. Virgil, Æneid I-VI .....	413	2.5	16.4	36.5	15.0	13.2	16.4	55.4	70.4	82.6
e. Nepos .....	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
be. Cæsar and Nepos .....	8	0.0	20.0	36.0	25.0	12.0	6.0	58.0	82.0	11.9
f. Sallust .....	7	0.0	0.0	14.3	28.6	28.6	14.3	14.3	42.9	71.4
g. Ovid .....	14	0.0	0.0	21.4	21.4	14.3	14.3	21.4	42.9	57.1
h. Prose Composition .....	773	0.1	3.4	16.2	7.4	12.4	60.5	19.7	27.0	39.5
m. Elementary Sight Translation of Prose .....	824	1.0	11.2	28.9	14.7	15.7	11.7	37.9	53.6	69.3
p. Advanced Sight Translation of Prose .....	147	0.0	7.7	39.7	14.8	16.0	20.6	47.6	62.4	72.4
q. Sight Translation of Poetry .....	11	0.0	4.1	35.5	18.2	18.2	24.5	40.9	57.3	75.5
dq. Æneid, I-VI, and Sight .....	330	0.0	5.5	38.2	19.1	18.5	18.8	43.6	62.7	81.2
	6997	0.8	8.8	28.6	15.4	15.8	30.6	38.2	53.6	69.4

TABLE X—(Continued)

	Number of Candidates	% Ratings 75-100	% Ratings 75-80	% Ratings 60-74	% Ratings 50-59	% Ratings 40-49	% Ratings 30-39	% Ratings 20-29	% Ratings 10-19	% Ratings 0-9
<b>Greek</b>										
<i>a.</i> i. Grammar .....	125	5.6	6.2	21.0	13.8	15.9	34.4	35.9	49.7	65.6
ii. Elementary Prose Composition.....	234	1.7	11.1	29.9	15.4	11.5	30.3	42.7	58.1	69.7
<i>b.</i> Xenophon.....	222	3.9	18.4	25.7	14.9	15.4	21.5	48.2	63.2	78.5
<i>c.</i> Homer, Iliad I-III....	66	10.6	40.9	15.2	14.1	6.1	15.2	66.7	78.8	84.8
<i>f.</i> Prose Composition...	125	2.4	8.0	27.2	13.6	14.4	34.6	37.6	51.2	65.6
<i>g.</i> Sight Translation of Prose.....	187	5.3	23.5	29.4	15.0	10.7	16.0	58.3	73.3	84.0
<i>h.</i> Sight Translation of Homer.....	2	0.0	50.0	50.0	0.0	0.0	0.0	100.0	100.0	100.0
<i>i.</i> Iliad I-III and Sight..	108	2.0	44.8	22.0	13.3	10.5	5.7	70.5	83.8	94.3
	1142	4.3	18.8	25.7	14.4	12.8	24.2	48.7	63.0	75.8
<b>French</b>										
<i>a.</i> Elementary.....	1076	7.0	33.6	30.8	11.5	8.9	7.9	71.7	83.2	92.1
<i>b.</i> Intermediate.....	607	1.3	14.6	33.5	21.3	15.4	16.9	46.4	67.7	83.1
<i>c.</i> Intermediate and Advanced.....	91	3.3	26.3	34.1	16.5	4.4	5.5	73.6	90.1	94.5
	1974	5.5	26.5	31.5	14.9	10.8	10.8	63.5	78.4	89.2
<b>German</b>										
<i>a.</i> Elementary.....	1470	2.6	17.4	32.2	17.9	12.5	17.4	52.2	70.2	82.6
<i>b.</i> Intermediate.....	341	0.0	7.9	29.2	15.5	20.9	25.5	38.1	53.6	74.5
<i>c.</i> Intermediate and Advanced.....	72	2.8	15.3	20.8	11.1	10.4	30.6	38.9	50.0	69.4
	1783	2.1	14.5	30.8	16.9	15.3	20.4	47.4	64.3	79.6
<b>Spanish</b>	14	7.1	35.7	35.7	7.1	7.1	7.1	78.6	85.7	92.9
<b>Mathematics</b>										
<i>a.</i> Elementary Algebra	1443	15.0	19.7	23.2	10.0	9.1	23.0	57.0	67.9	77.0
<i>a.</i> i. To Quadratics.....	257	4.5	9.4	21.4	11.7	9.8	43.2	35.3	47.0	56.8
<i>a.</i> ii. Quadratics and Beyond.....	146	10.3	17.5	25.4	7.9	11.6	27.0	53.2	61.1	73.0
<i>b.</i> Advanced Algebra....	143	11.4	35.7	21.7	7.0	9.8	10.5	72.7	79.7	89.5
<i>c.</i> Plane Geometry.....	1443	14.5	18.4	23.7	12.0	9.6	22.4	56.6	68.6	77.6
<i>d.</i> Solid Geometry.....	217	9.3	14.8	32.5	14.3	13.1	16.0	56.5	70.9	84.0
<i>cd.</i> Plane and Solid Geometry.....	290	10.0	19.3	21.0	11.7	12.1	25.9	50.3	62.1	74.1
<i>e.</i> Trigonometry.....	13	1.7	15.5	17.9	8.6	13.8	22.4	55.2	63.8	77.6
<i>f.</i> Plane Trigonometry..	144	3.3	11.4	30.3	15.0	14.4	45.4	45.2	60.2	74.6
	3321	12.3	18.1	24.4	11.3	10.1	23.7	54.5	66.2	76.3
<b>Physics</b> .....	600	4.7	18.0	21.1	14.9	13.7	16.5	54.9	69.8	81.5
<b>Chemistry</b> .....	142	4.4	22.1	40.1	14.9	11.2	9.3	65.6	79.5	90.7
<b>Botany</b> .....	18	0.0	27.8	22.2	22.2	0.0	27.8	50.0	72.2	72.2
<b>Geography</b> .....	35	8.0	36.0	36.0	4.0	12.0	4.0	80.0	84.0	96.0
<b>Zoology</b> .....	0	0.0	22.2	11.1	0.0	0.0	11.1	88.9	88.9	88.9
<b>Drawing</b> .....	122	7.4	24.6	34.4	8.2	14.0	10.7	65.6	73.8	84.3
<b>Music</b>										
<i>a.</i> Appreciation.....	3	0.0	0.0	50.0	0.0	0.0	50.0	50.0	50.0	50.0
<i>b.</i> Harmony.....	3	14.3	0.0	14.3	14.3	14.3	57.1	28.6	42.9	42.9
<i>c.</i> Counterpoint.....	1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
<i>d.</i> Pianoforte, <i>e.</i> Voice, <i>f.</i> Violin..	3	0.0	33.3	33.3	0.0	0.0	33.3	66.7	66.7	66.7
	83	5.7	6.7	26.7	6.7	14.3	53.3	49.0	46.7	46.7
<b>Total</b> .....	20000	4.1	14.5	29.6	14.5	11.7	23.2	48.8	63.1	76.8



The following table shows the highest rating obtained in each subject:

TABLE XI

SUBJECT	TOTAL NUMBER OF CANDIDATES	HIGHEST RATING	SUBJECT	TOTAL NUMBER OF CANDIDATES	HIGHEST RATING
English a	1706	98	French a	1196	99
b	1368	96	b	629	93
History a	734	94	bc	91	95
b	39	82	German a	1170	98
c	394	91	b	541	94
d	544	96	bc	72	96
Latin a i	1166	96	Spanish	13	92
a ii	1152	96	Mathematics a	144	100
b	941	95	a i	290	98
c	1009	96	a ii	126	100
d	433	97	b	143	100
e	0	..	c	1425	100
be	50	90	d	237	100
f	7	71	cd	290	100
g	14	69	e	58	98
l	773	90	f	334	100
m	823	94	Physics	619	100
p	189	85	Chemistry	430	100
q	110	90	Botany	18	83
dq	330	89	Geography	24	91
Greek a i	195	97	Zoölogy	9	80
a ii	234	94	Drawing	122	100
b	228	97	Music a	4	70
c	66	96	b	7	92
f	125	91	c	1	0
g	187	96	def	3	87
h	2	75			
ch	105	94			

The only subjects in which a rating of 100 per cent. was obtained were mathematics, physics, chemistry, and drawing. It may be of interest to note that of the 1,425 who took the examination in plane geometry forty-nine received 100 per cent., but less than three-fifths of the whole number succeeded in obtaining a rating of 60 per cent.

The results of the examinations, taken as a whole, are less favorable than in any previous year during which the Board

has held examinations. Less than half of the answer books rated received a rating as high as 60 per cent. On a "passing mark" of 50, more than one-third of the marks reported would mean failures. If we have regard only to the subjects in which more than one hundred candidates were examined, the least favorable showing was made on the Latin papers. About four-fifths of the candidates failed to obtain a rating of 60 in elementary prose composition and advanced prose composition. About three-fifths of the candidates failed to receive 60 per cent. in Caesar, Cicero, and sight translation. Next to Latin the least favorable showing was made in history.

The following table institutes a comparison between the results of the examinations during the nine years of the Board's operations:

TABLE XII

RATINGS	PER CENT	PER CENT	PER CENT	PER CENT	PER CENT	PER CENT	PER CENT	PER CENT	PER CENT
	1901	1902	1903	1904	1905	1906	1907	1908	1909
90-100	7.1	6.7	6.3	6.1	4.5	5.0	4.5	5.1	4.1
75-89	20.2	17.8	20.0	21.4	20.3	18.7	17.2	18.6	14.8
60-74	32.0	31.4	31.9	32.6	31.4	32.0	31.5	32.4	29.9
50-59	11.2	12.4	11.8	12.1	12.4	13.0	14.0	12.3	14.3
40-49	11.7	12.4	11.1	11.1	12.2	12.2	13.7	12.0	13.7
0-39	17.8	19.4	18.9	16.7	19.1	19.2	19.1	19.5	23.2
60-100	59.3	55.9	58.2	60.1	56.2	55.7	53.3	56.2	48.8
50-100	70.5	68.3	70.0	72.2	68.6	68.7	67.3	68.4	63.1
40-100	82.2	80.6	81.1	83.3	80.8	80.9	80.9	80.5	76.8

The following financial statement covers the operations of the Board during the twelve months ending August 31, 1909:

## Financial

TABLE XIII

FINANCIAL STATEMENT, SEPTEMBER 1, 1908, TO AUGUST 31, 1909

Balance on hand September 1, 1908. . . . \$7,620.62

## RECEIPTS

1. Annual dues of membership.....	\$2,700.00	
2. Examination fees .....	18,460.00	
3. Sales of duplicate records.....	231.90	
4. Sales of Examination Questions.....	730.34	
5. Sales of printed documents.....	41.58	\$29,784.44

## EXPENDITURES

1. Salaries .....		\$2,364.00
2. Printing .....		1,480.79
3. Stationery and incidentals.....		161.24
4. Postage and expressage.....		1,071.55
5. Clerical and other assistance.....		2,056.60
6. Furniture and other fixtures.....		53.45
7. Expenses of special committees.....		377.81
8. Examiners:		
Salaries .....	\$1,085.00	
Expenses .....	477.16	1,562.16
9. Readers:		
Salaries .....	\$7,402.26	
Expenses .....	1,227.94	8,630.20
10. Supervisors and proctors:		
Salaries .....	\$2,933.57	
Expenses .....	163.44	3,097.01
11. Examination supplies:		
Question papers, answer-books, logarithmic tables, maps, envelopes, etc.....		1,322.82
Total expenses .....		\$22,177.63
Balance on hand September 1, 1909.....		7,606.81
		<hr/>
		\$29,784.44

Respectfully submitted,

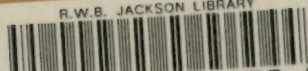
THOMAS S. FISKE,  
Secretary.

August 31, 1909.





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